

ALBERTA

NORTHERN SHEET

Scale 175,000 or 12 1/2 Miles to 1 inch.

CANADIAN PACIFIC RAILWAY COMPANY

COLONIZATION AND DEVELOPMENT BRANCH

J. S. DENNIS

CHIEF COMMISSIONER

COMPILED BY W. PEARCE
Calgary 20th April 1918.

No 23

Showing as units each Municipality, Local Improvement Districts and area which will eventually become Local Improvement Districts and afterwards Municipalities.

Drawn to scale: The Cultivated area in acres, also Stock area in acres, Horses, Cattle, Sheep and Pigs with the area apportioned thereof.

LEGEND

Area under crop in acres, plotted to scale with area shown in acres.

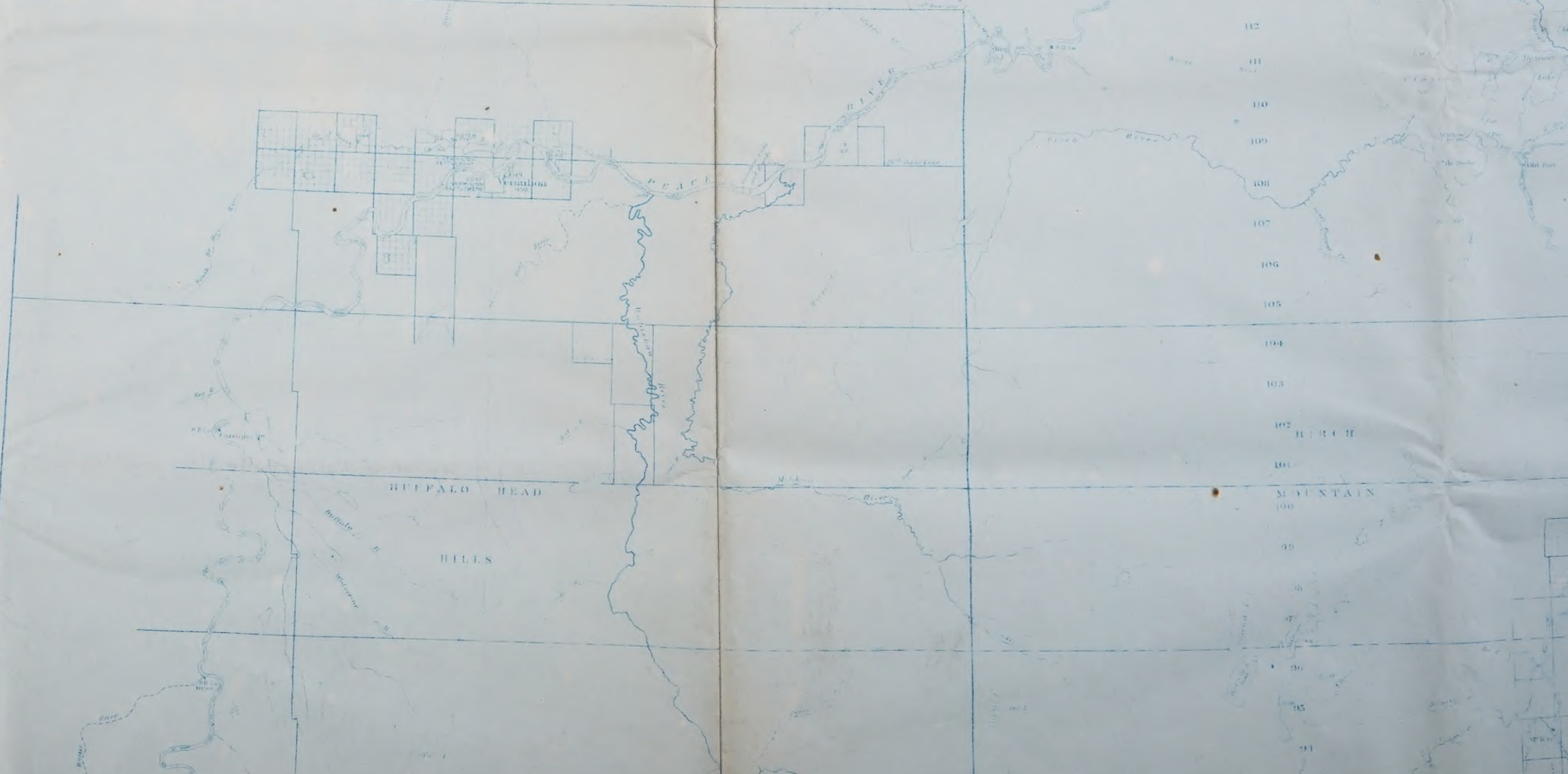
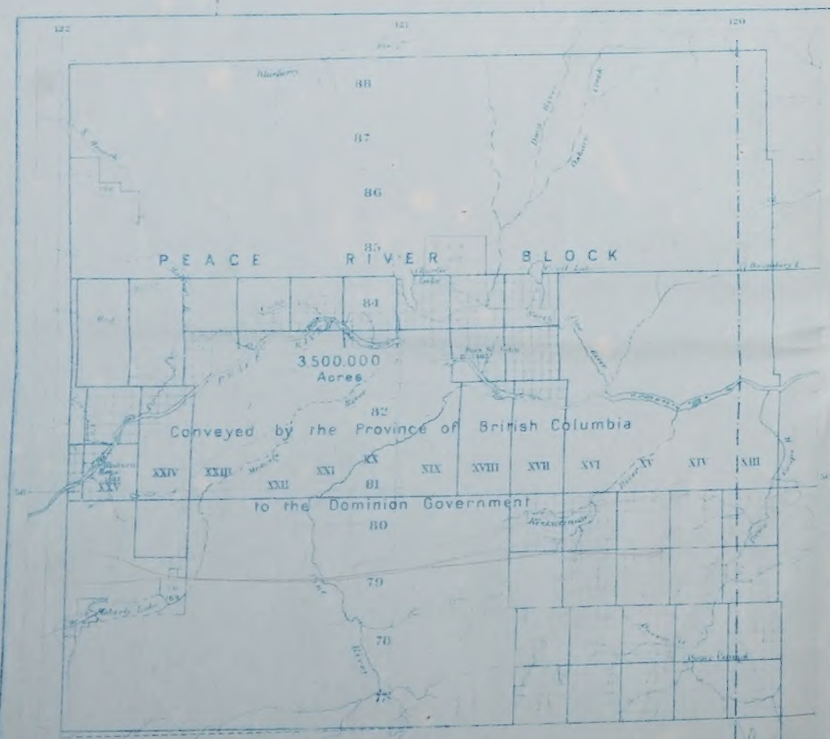


Acres to scale required for pasturage, allowing 5 ac. for each horse, 4 ac. for each head of cattle and 1 ac. for each sheep and pig. The upper figures show the 1st Horses, next Cattle, next Sheep and bottom Pigs.



--- Municipalities or Local Improvement District where organized, where unorganized will be.

224 Population other than that in Cities, towns and Villages. Note: Non-urban in this differs from what is classed as rural in the majority of the other graphs issued by this office. The said rural is non-urban plus 1% of Cities, 8% of the Towns and 20% of the Villages, located within said units.



ALBERTA

NORTHERN SHEET

Scale 1:250,000 or 12 1/2 Miles to 1 Inch.

PACIFIC RAILWAY COMPANY

ATION AND DEVELOPMENT BRANCH

J. S. DENNIS

CHIEF COMMISSIONER

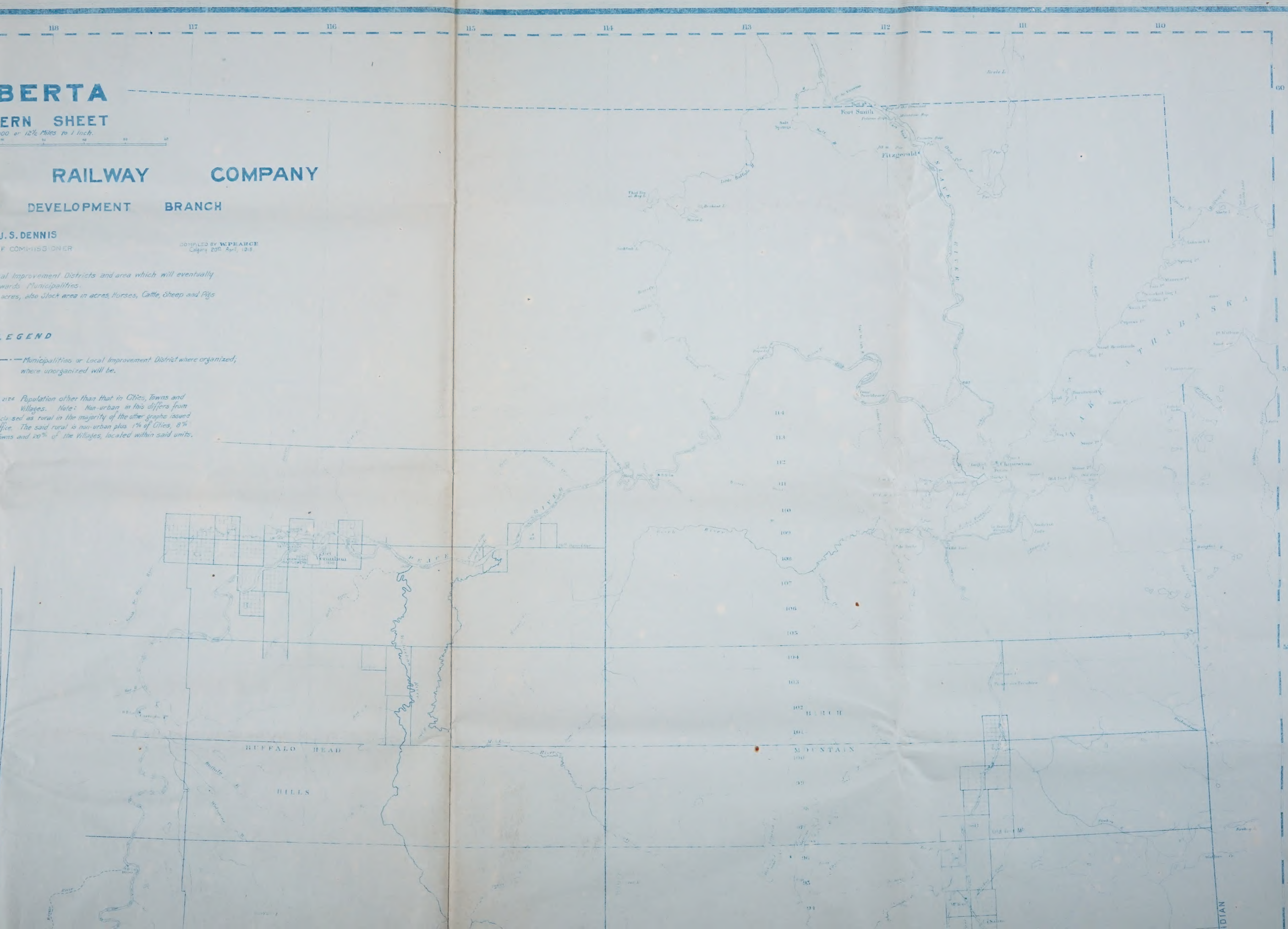
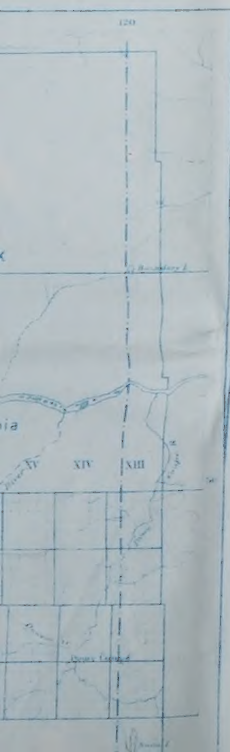
COMPILED BY W. PEARCE
Calgary 20th April, 1918

into each Municipality, Local Improvement Districts and area which will eventually
ment Districts and afterwards Municipalities.
The Cultivated area in acres, also Stock area in acres, Horses, Cattle, Sheep and Pigs
mentioned thereof.

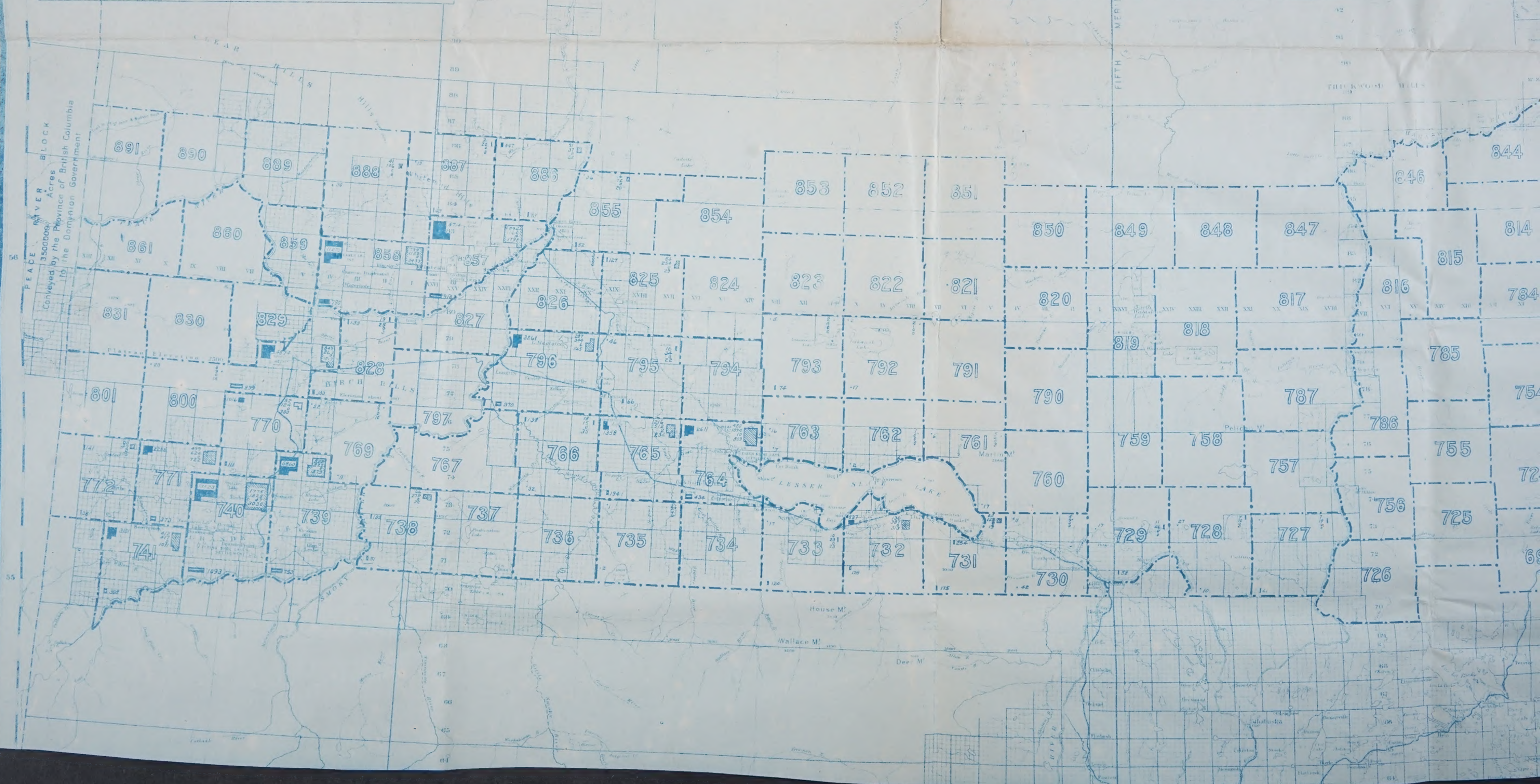
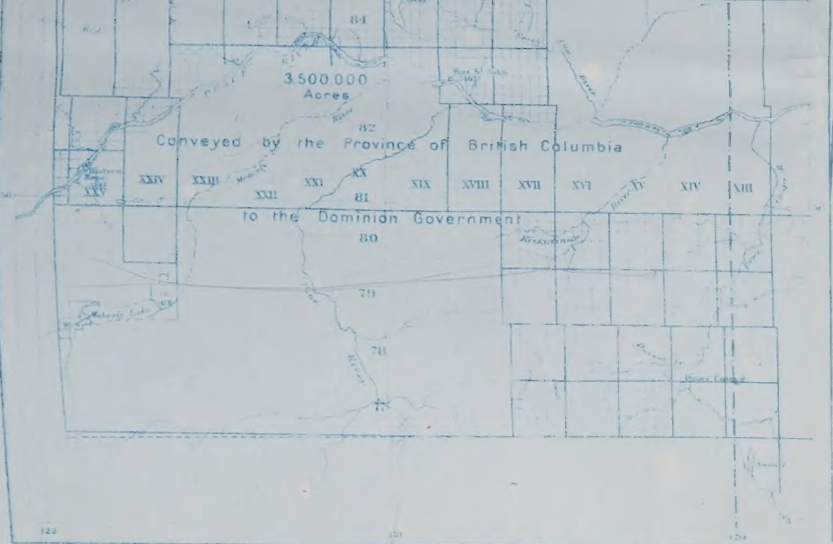
LEGEND

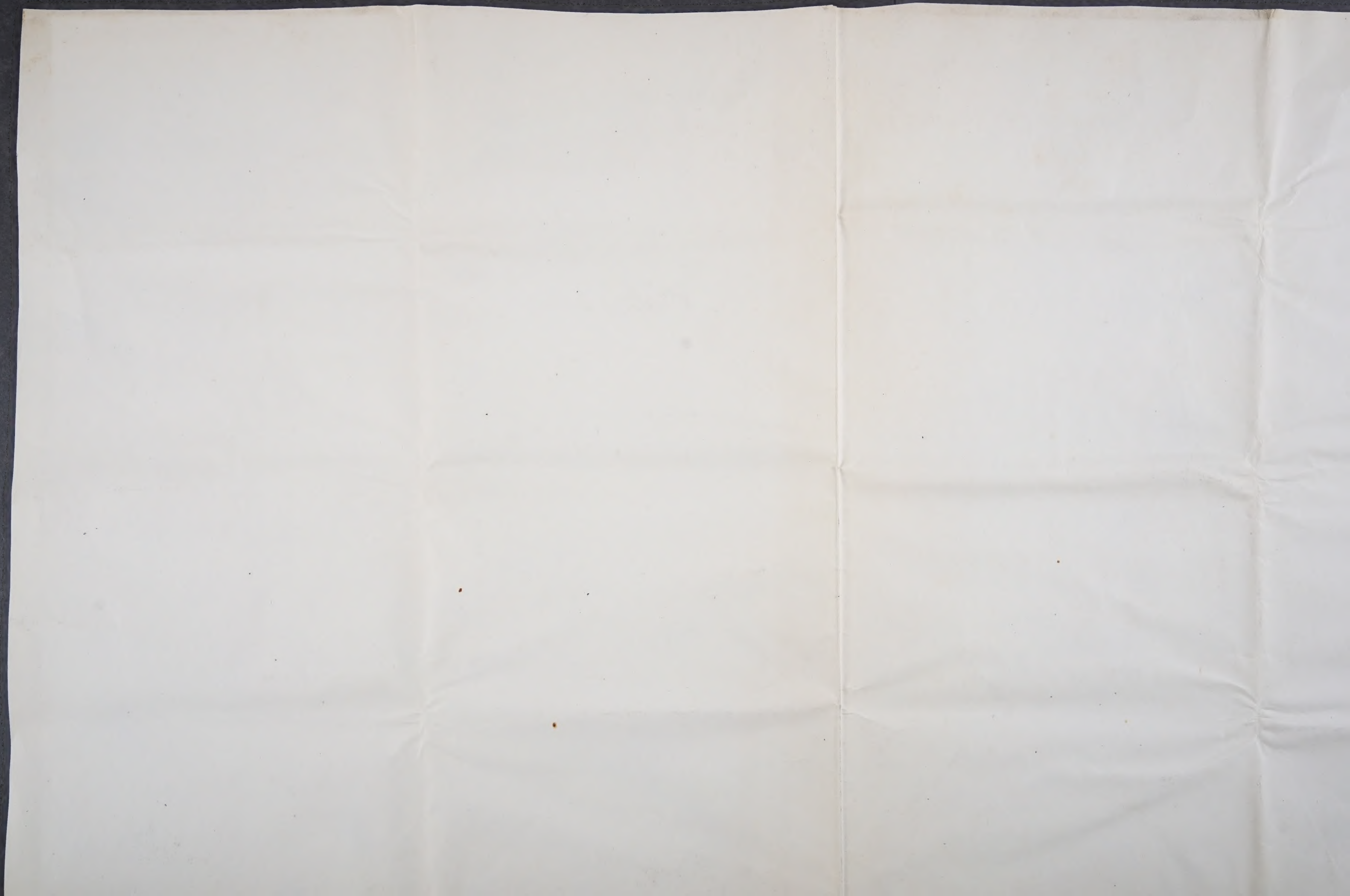
4 --- Municipalities or Local Improvement District where organized,
where unorganized will be.

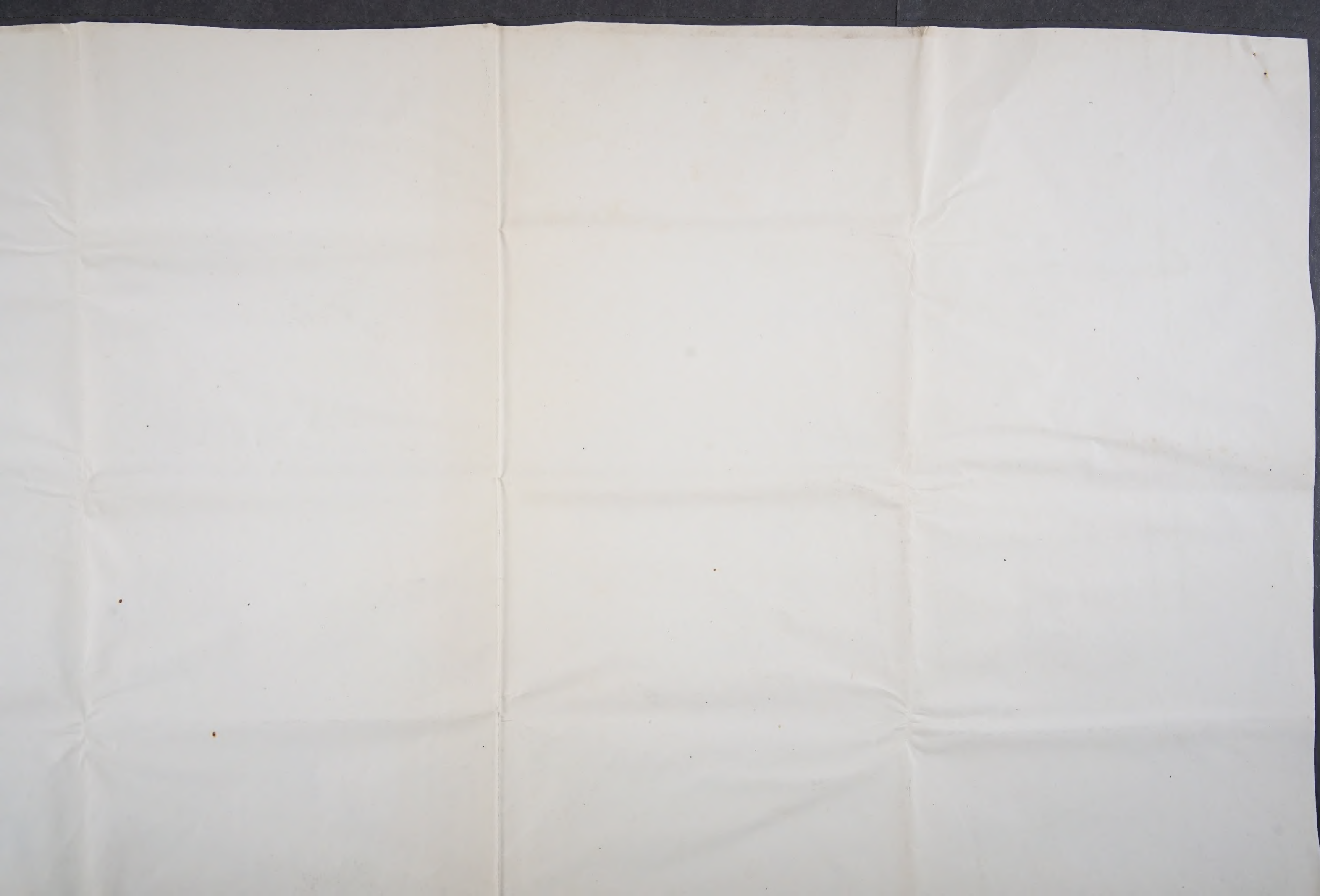
Population other than that in Cities, Towns and
Villages. Note: Non-urban in this differs from
what is classed as rural in the majority of the other graphs issued
by this office. The said rural is non-urban plus 1% of Cities, 8%
of the Towns and 20% of the Villages, located within said units.





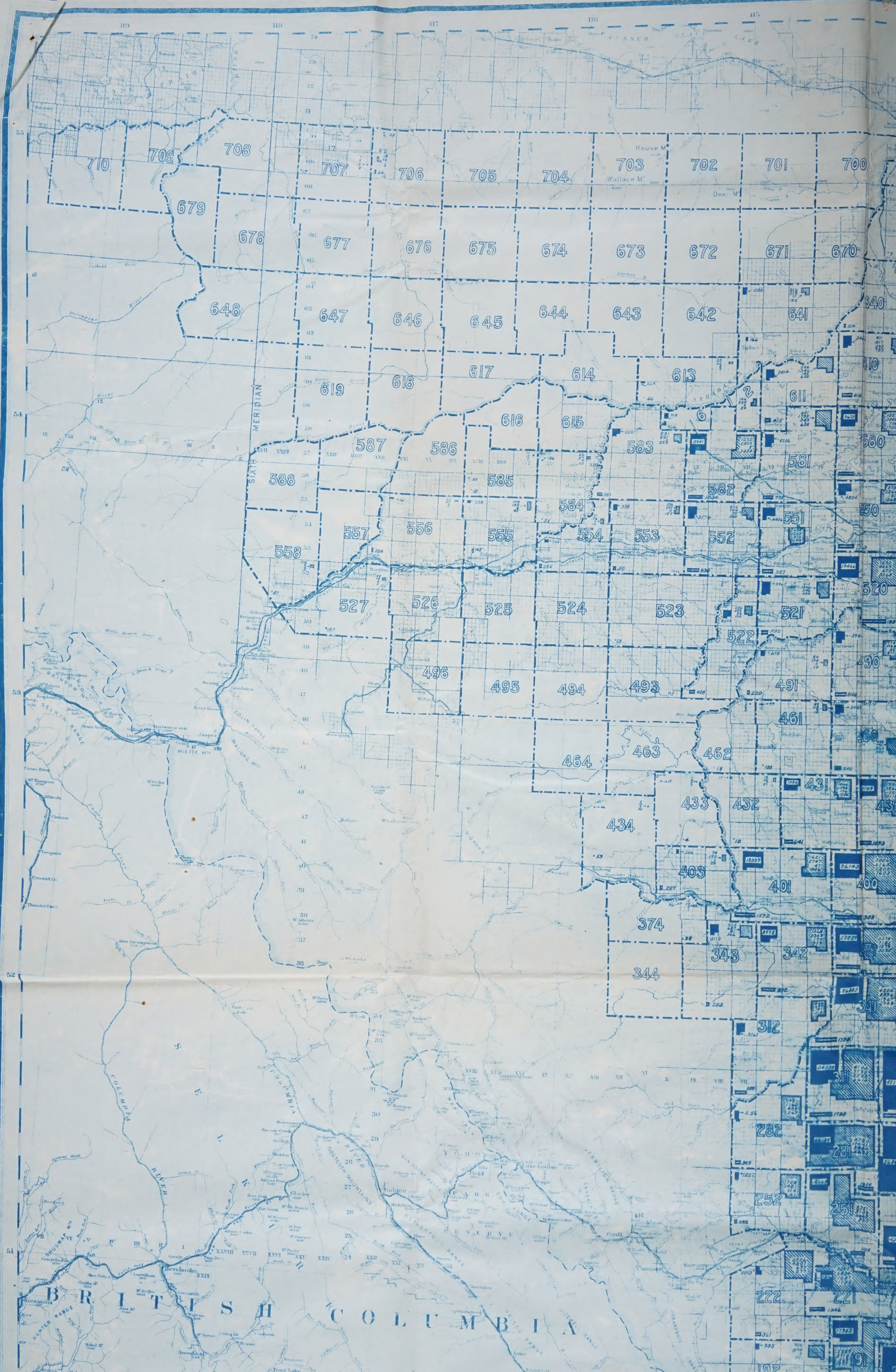






LRA-1974-169-2100-001-001





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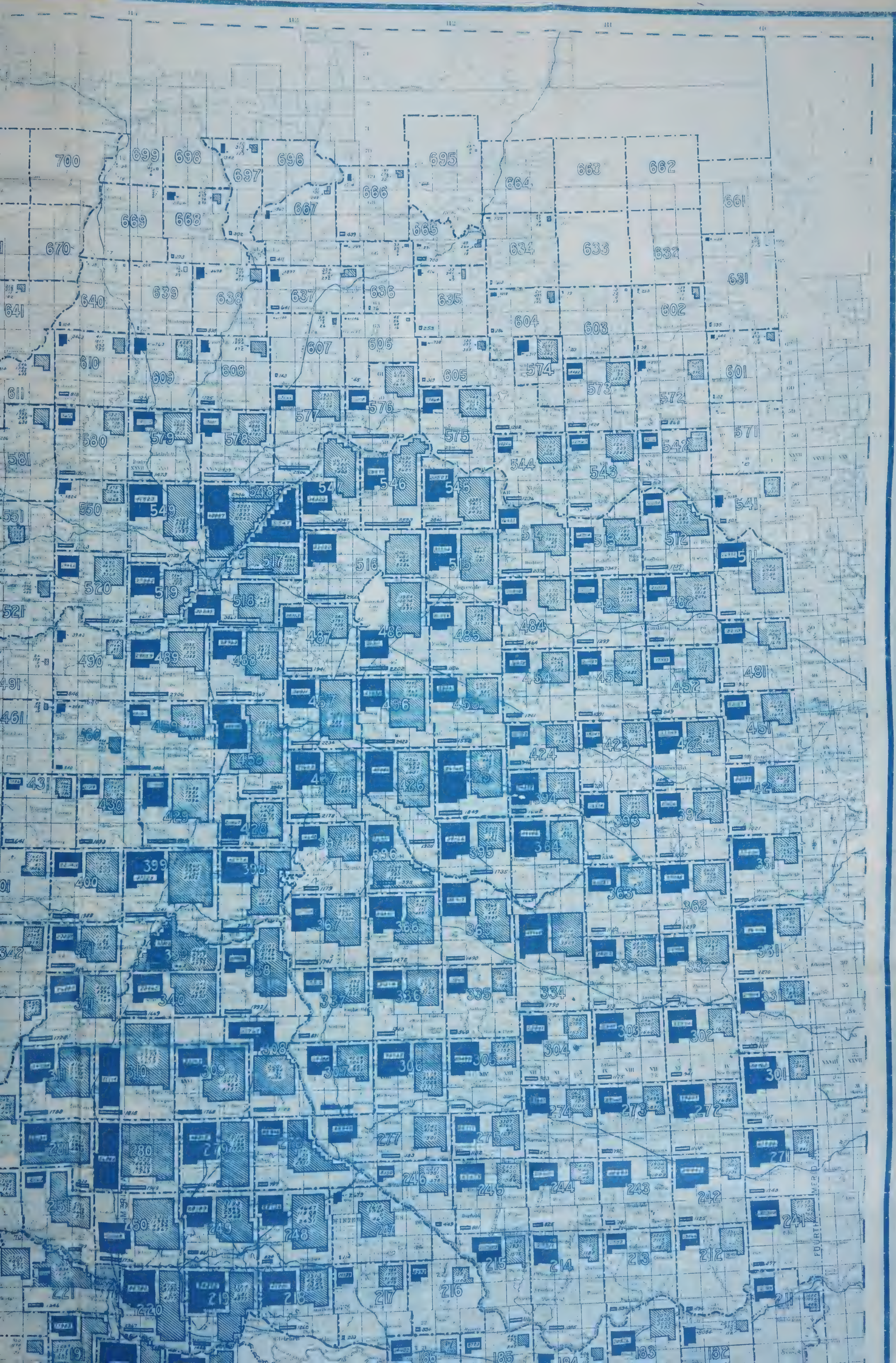
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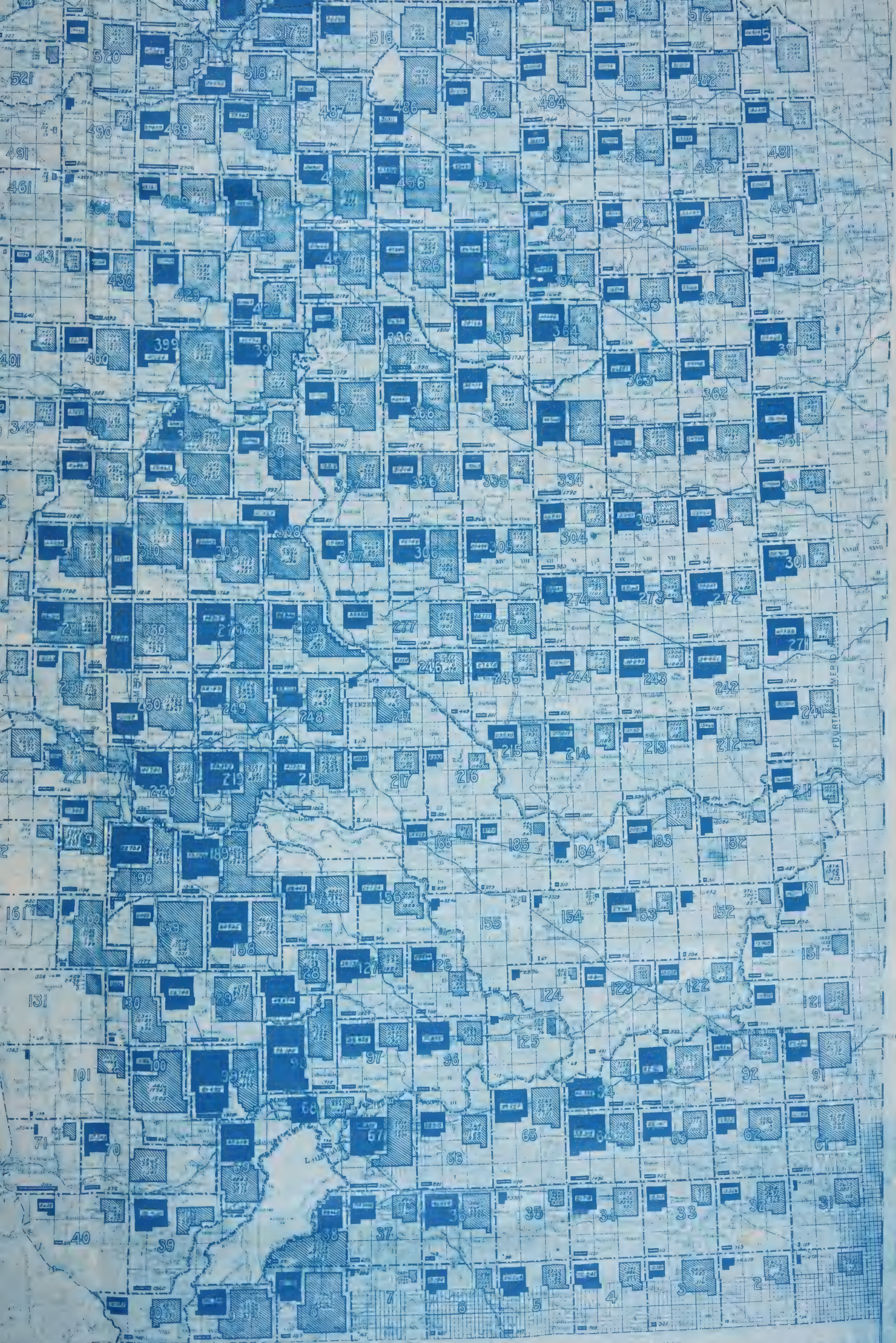
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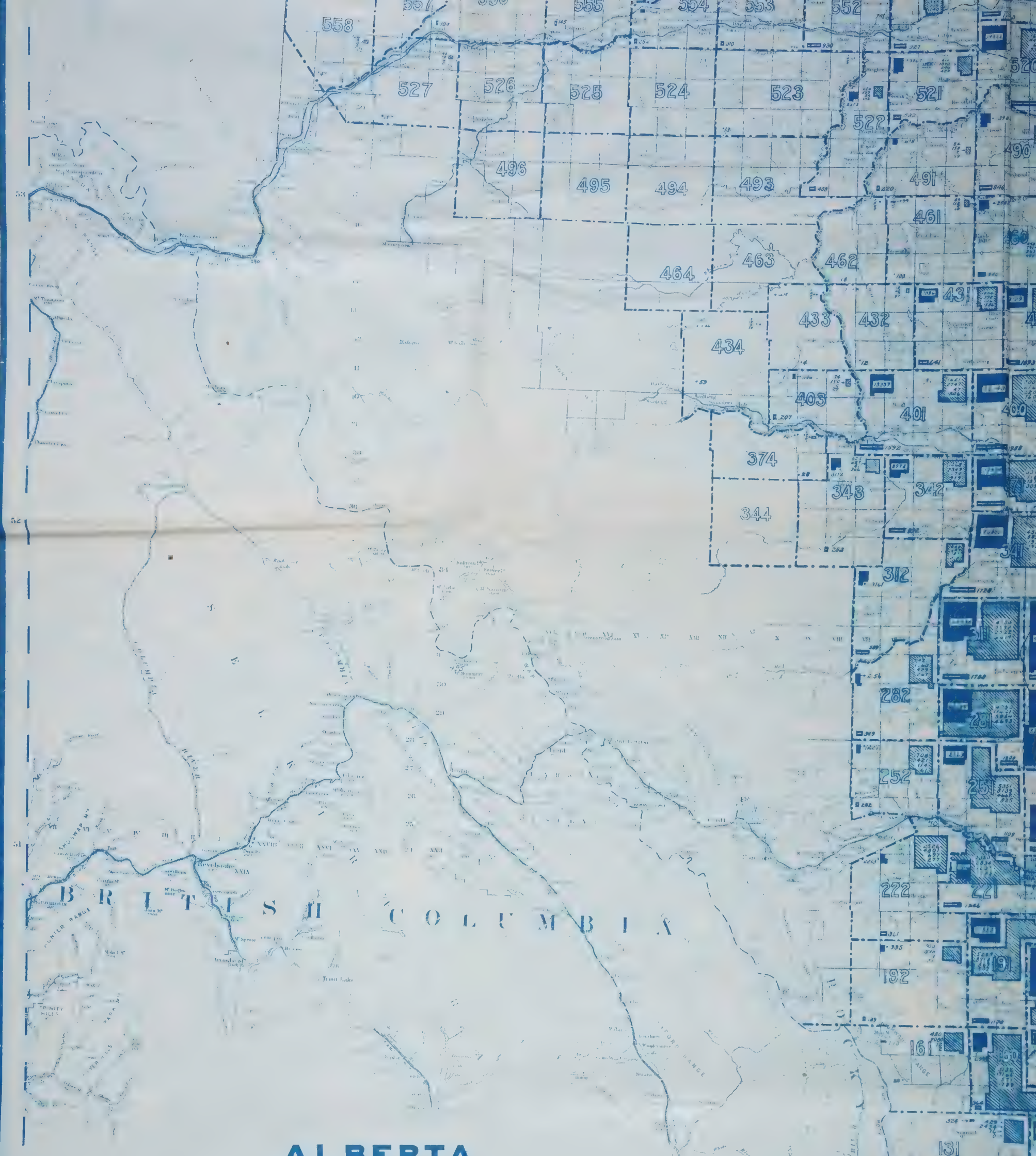
221

192

BRITISH COLUMBIA







ALBERTA

SOUTHERN SHEET

Scale 1:750,000 or 12 1/2 Miles to 1 Inch

CANADIAN PACIFIC RAILWAY COMPANY

COLONIZATION AND DEVELOPMENT BRANCH

J. S. DENNIS

CHIEF COMMISSIONER

COMPILED BY W. P. RANCH

Calgary 20th April, 1918

No 22

Showing as units each Municipality, Local Improvement Districts and area which will eventually become Local Improvement Districts and afterwards Municipalities.

Drawn to scale: The Cultivated area in acres, also Stock area in acres, Horses, Cattle, Sheep and Pigs with the area apportioned thereof.

LEGEND

Area under crop in acres, plotted to scale with area shown in acres.



Acres to scale required for pasturage, allowing 5 ac. for each Horse, 4 ac. for each head of Cattle and 1 acre for each Sheep and Pig. The figures show the Hrs. Horses, next Cattle, next Sheep and Pigs.



4 --- Municipalities or Local Improvement District where organized; where unorganized will be.

2124 Population other than that in Cities, Towns and Villages. Note: Non-urban in this differs from what is classed as rural in the majority of the other graphs issued by this office. The said rural is non-urban plus 1% of Cities, 8% of the Towns and 20% of the Villages, located within said units.



Calgary 6th May 1918.

Dear Sir:-

Attached hereto units please find two graphs No 22 and 23. They can readily be pasted together thus making one for the entire province of Alberta.

In each unit the area under cultivation is shown to scale. Also that required for stock on the basis specified. In reference to the grazing within said units it would be well to bear in mind that probably a very small percentage of the land grazed over is owned by the proprietors of the stock grazing thereon, being railway land grants or owned by others, many no doubt not residing in the vicinity or even in the province.

It is trusted they will prove both interesting and of value. For the purpose of showing to what extent the lands in the various units are now utilized, it is hoped the schemes adopted is a good one. If you can suggest a better one the undersigned would take it as a personal favor if you would do so. The object in preparing these graphs is to present information in such a shape that it can be readily grasped. For that reason, many good ideas will no doubt present themselves to others than those engaged in the preparation thereof.

It is hoped that by reference to the legend anyone can readily understand what the compiler desired to show and he trusts he has made a fair approach towards the object sought. It is anticipated that the information thus presented will prove of very considerable aid in any further schemes of settlement, particularly in the matter of filling up the areas now sparsely or partially occupied.

William Pearce



Calgary 6th June 1918.

Dear Sir:-

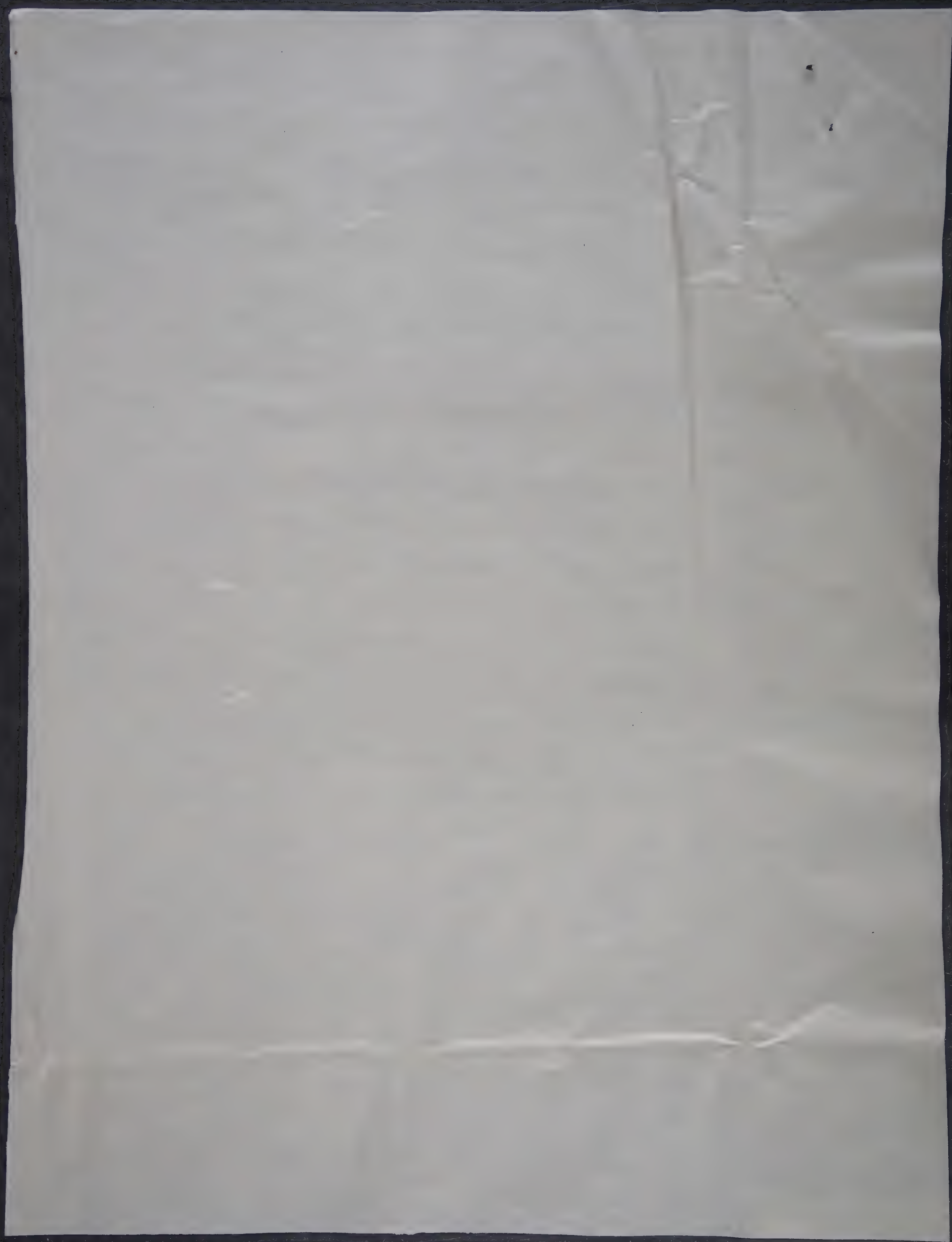
Attached hereto units please find graph No 26 representing the Province of Saskatchewan.

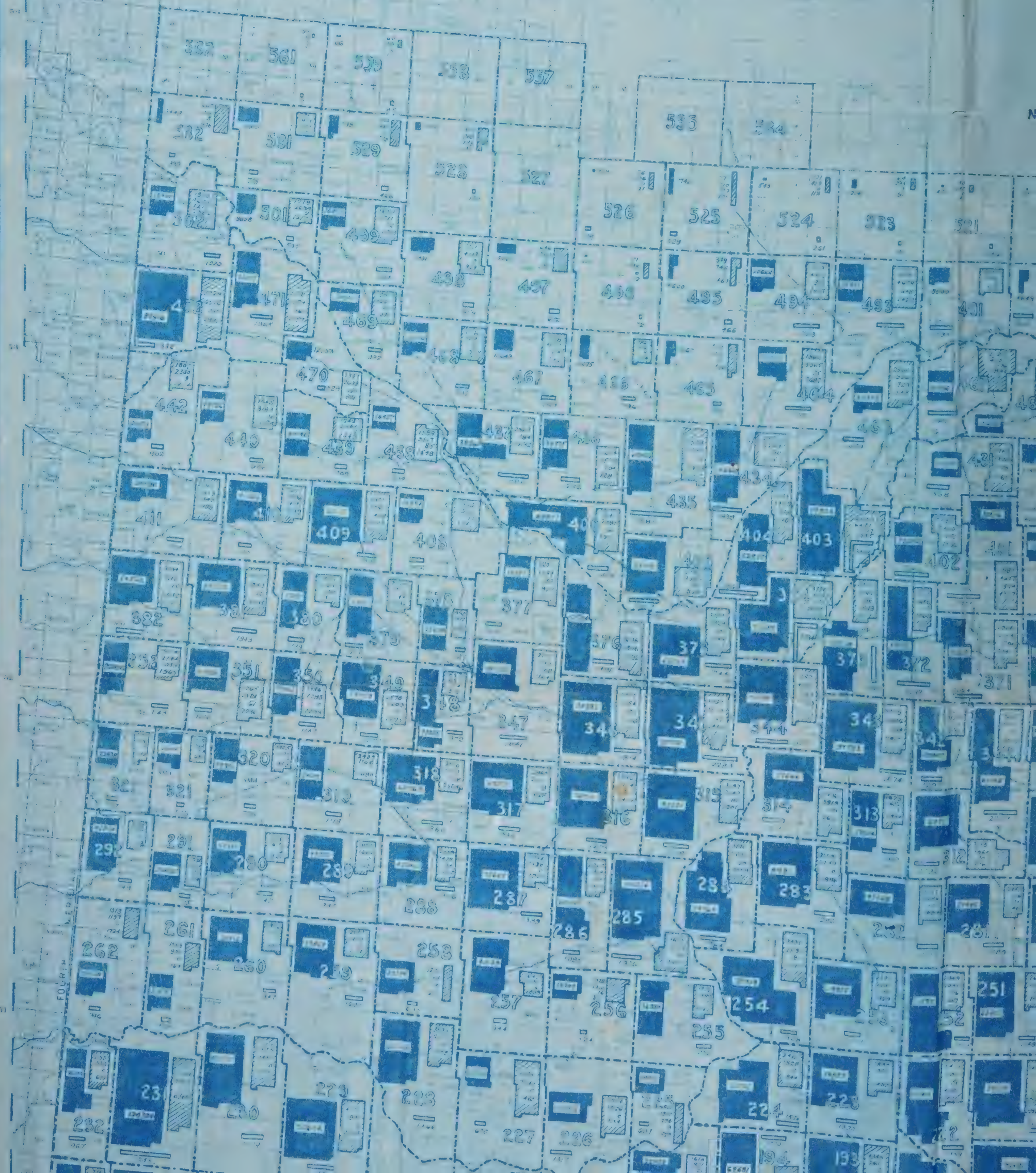
In each unit the area under cultivation is shown to scale. Also that required for stock or the basis specified. In reference to the grazing within said units it would be well to bear in mind that probably a very small percentage of the land grazed over is owned by the proprietors of the stock grazing thereon, being railway land grants or owned by others, many no doubt not residing in the vicinity or even in the province.

It is trusted it will prove both interesting and of value. For the purpose of showing to what extent the lands in the various units are now utilized, it is hoped the scheme adopted is a good one. If you can suggest a better one the undersigned would take it as a personal favor if you would do so. The object in preparing this graph is to present information in such a shape that it can be readily grasped. For that reason, many good ideas will no doubt present themselves to others than those engaged in the preparation thereof.

It is hoped that by reference to the legend anyone can readily understand what the compiler desired to show and he trusts he has made a fair approach towards the object sought. It is anticipated that the information thus presented will prove of very considerable aid in further schemes of settlement, particularly in the matter of filling up the areas now sparsely or partially occupied.

William Pearce





SASKATCHEWAN

Scale: 1:792,000 or 12 1/2 Miles to 1 Inch

CANADIAN PACIFIC RAILWAY COMPANY COLONIZATION AND DEVELOPMENT BRANCH

J. S. DENNIS
CHIEF COMMISSIONER

COMPUTED BY W. F. LARSEN
Calgary 4th May 1918

Showing as units each Municipality, Local Improvement Districts and area which will eventually become Local Improvement Districts and afterwards Municipalities.

Drawn to scale: The Cultivated area in acres, also Stock area in acres, Horses, Cattle, Sheep, and Pigs, with the area apportioned thereof.

LEGEND

Area unimproved in acres
shown in blue



Municipalities or Local Improvement District where organized;
where unorganized will be.

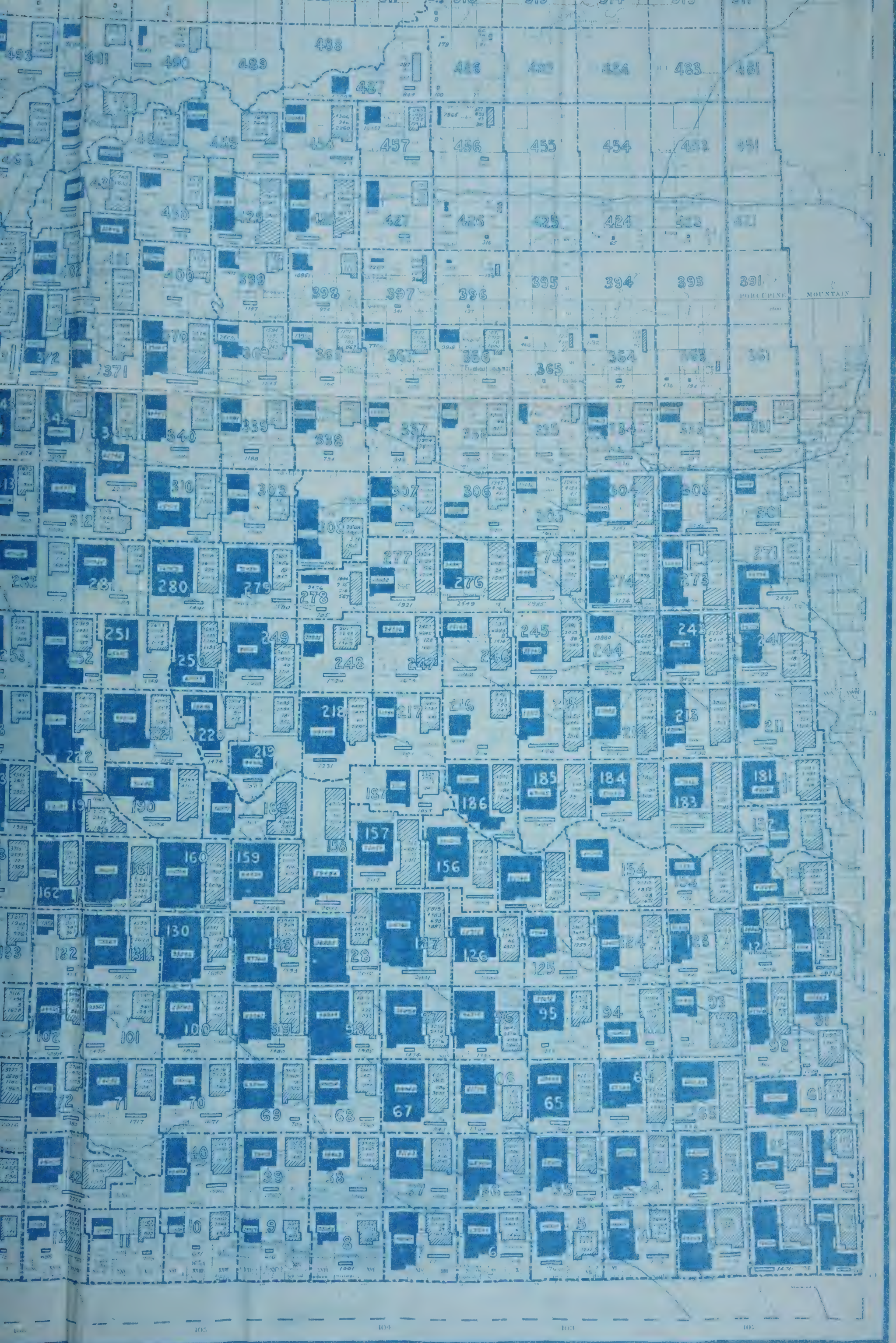
Acres to scale required for
pasture allowed for
each horse, acres for each
head of cattle and pigs for
each sheep and pig. The upper
figures show the No. of Horses,
the middle Cattle, next Sheep, and
bottom Pigs.

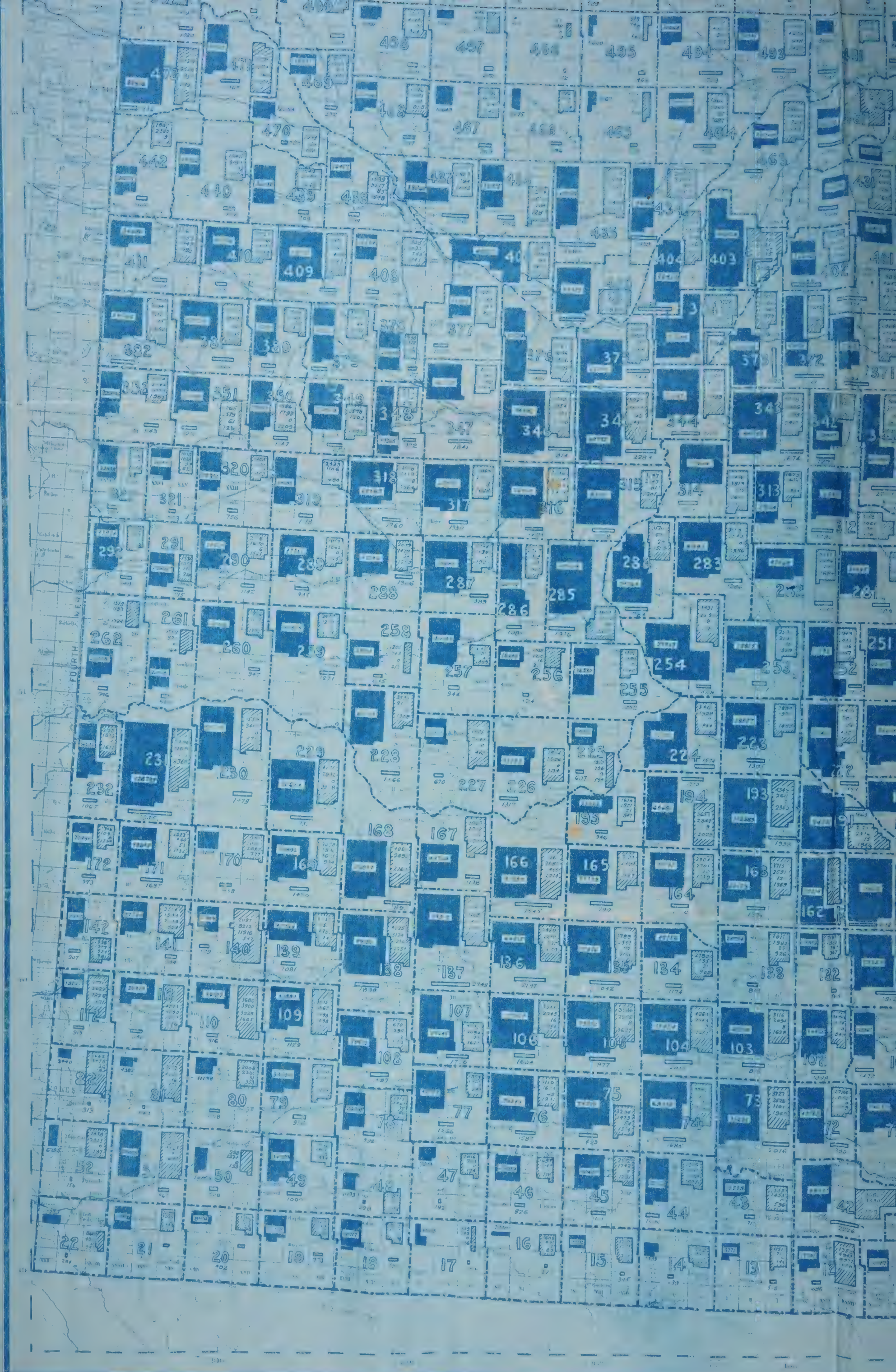


2124 Population other than that in Cities Towns and
Villages. Note: Non-urban in this differs from
what is classed as rural in the majority of the other graphs issued
by this office. The said rural is non-urban plus 1% of Cities, 8%
of the Towns and 20% of the Villages, located within said units.

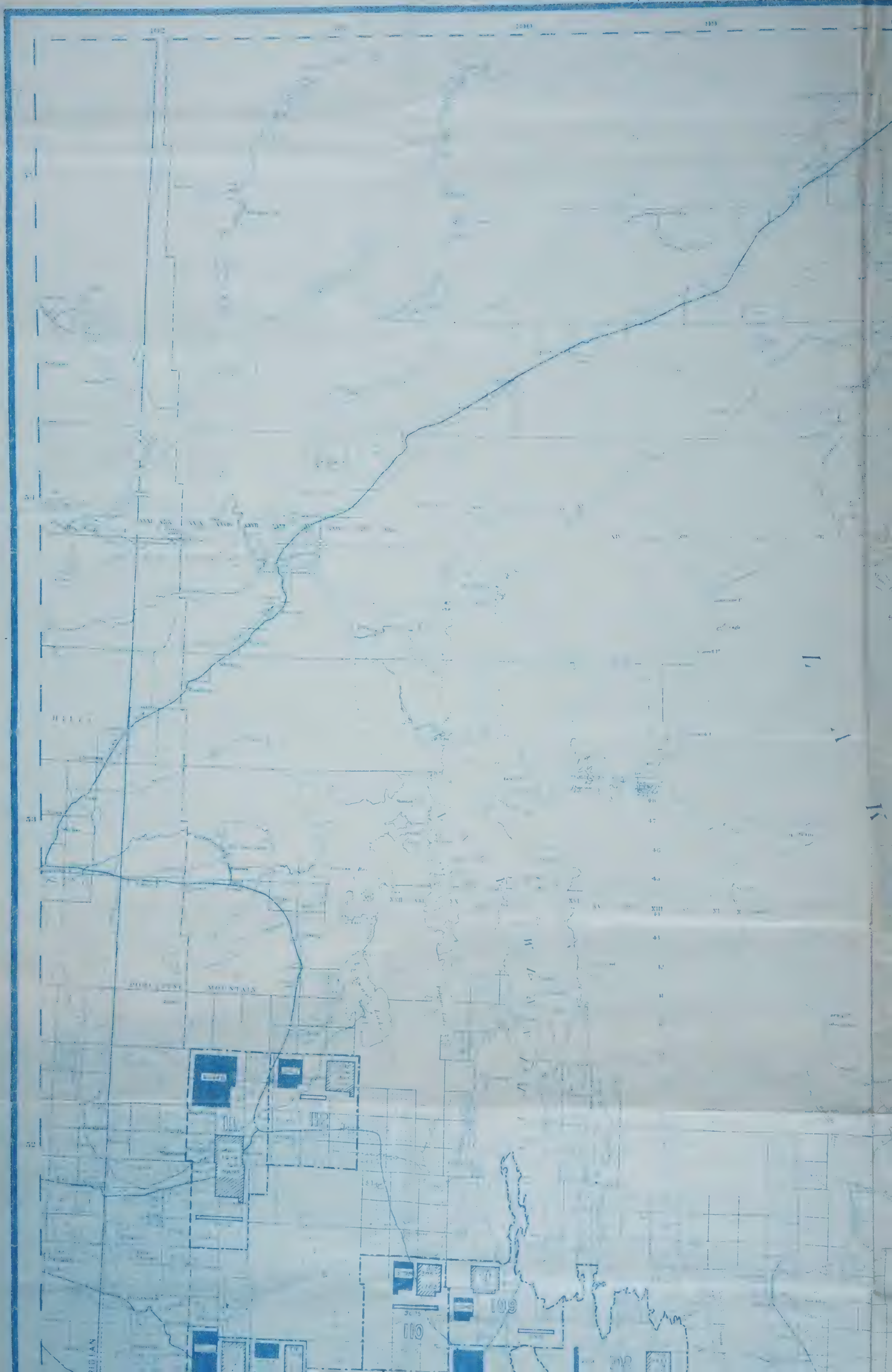
Nº 26











MANITOBA

CANADIAN PACIFIC RAILWAY COMPANY COLONIZATION AND DEVELOPMENT BRANCH

J. S. DENNIS
CHIEF COMMISSIONER.

COMPILED BY W. PEARCE
Calgary May 1918

Showing as units each Municipality, Local Improvement Districts and area which will eventually become Local Improvement Districts and afterwards Municipality.
Drawn to scale: Tree Cultivated area in acres, also Stock area in acres Horses, Cattle, Sheep and Pigs with the area apportioned thereof.

LEGEND

Area under crop in acres plotted to scale with area shown in acres.



Area to scale required for pasturage, allowing 100 acres for each Horse, 200 acres for each Cattle and 100 acres for each Sheep and Pig. The upper figure is for the Horses, next Cattle, next Sheep and bottom Pigs.

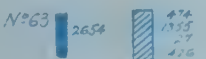
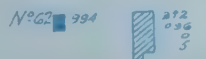
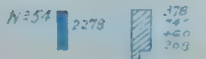


--- Municipality or Local Improvement District where organized, where unorganized will be

2124 Population other than that in Cities, Towns and Villages. Note: Non-urban in this differs from what is classed as rural in the majority of the other graphs issued by this office. The said rural is non-urban plus 1% of Cities, 8% of the Towns and 20% of the Villages, located within said units.



N° 28

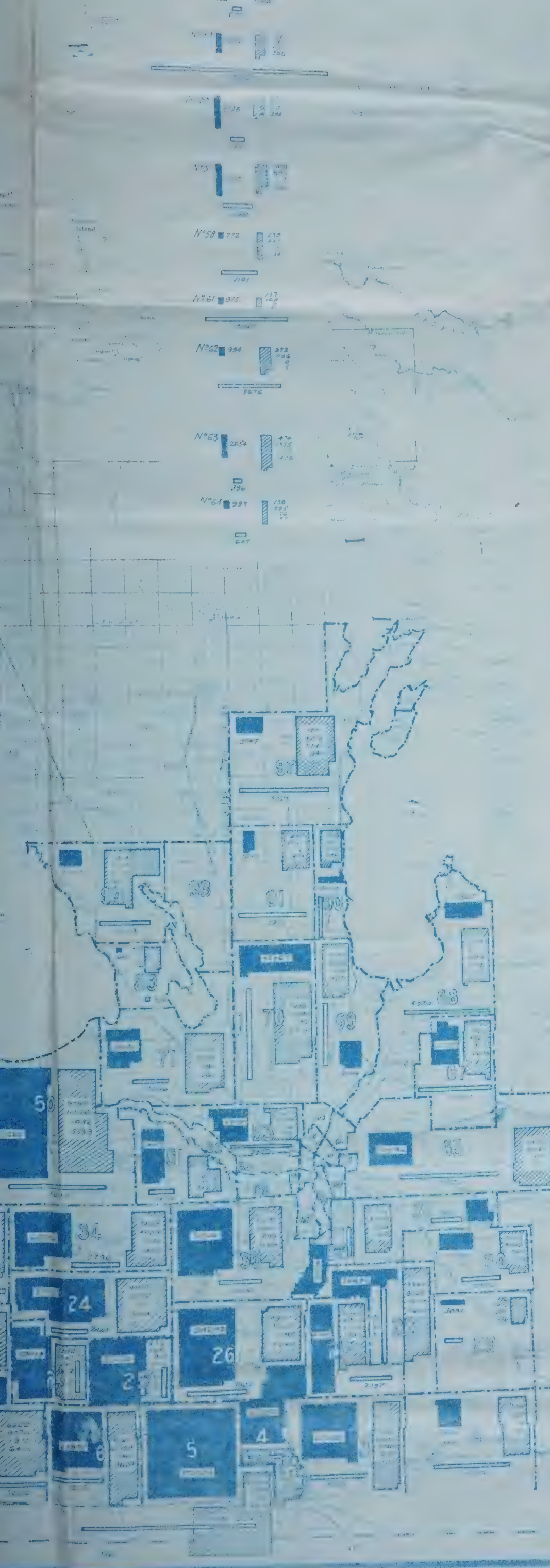


Municipalities - Alphabetical

Albert	16	McCreary	95
Archie	90	Norfolk North	49
Assiniboia	21	Norfolk South	38
Birtle	14	Oakland	38
Brokenside	93	Ochre River	106
Bushnell	54	Ogema	74
Carleton Place	92	Pembina	7
Charleswood	92	Pipestone	43
Cornwallis	77	Portage la Prairie	53
Coldwell	101	Rhineland	5
Cypress North	13	Ritchot	32
Cypress South	67	Riverside	19
Dalrymple	11	Rossburn	4
De Sauter	51	Russell	70
Dufferin	55	Roland	25
Elmwood	86	Rosedale	87
Elmwood	39	Rossburn	96
Elmwood	94	Rosser	59
Elmwood	48	Russell	98
Elmwood	37	Saskatchewan	76
Elmwood	46	Shellmouth	39
Elmwood	105	Shell River	100
Elmwood	27	Shell Lake	83
Elmwood	24	Sifton	42

Municipalities - Numbered

1	Springue	2	St. Mary
3	Trinidad	4	Trinidad
5	Trinidad	6	Trinidad
7	Trinidad	8	Trinidad
9	Trinidad	10	Trinidad
11	Trinidad	12	Trinidad
13	Trinidad	14	Trinidad
15	Trinidad	16	Trinidad
17	Trinidad	18	Trinidad
19	Trinidad	20	Trinidad
21	Trinidad	22	Trinidad
23	Trinidad	24	Trinidad
25	Trinidad	26	Trinidad
27	Trinidad	28	Trinidad
29	Trinidad	30	Trinidad
31	Trinidad	32	Trinidad
33	Trinidad	34	Trinidad
35	Trinidad	36	Trinidad
37	Trinidad	38	Trinidad
39	Trinidad	40	Trinidad
41	Trinidad	42	Trinidad
43	Trinidad	44	Trinidad
45	Trinidad	46	Trinidad
47	Trinidad	48	Trinidad
49	Trinidad	50	Trinidad
51	Trinidad	52	Trinidad
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95	Trinidad	96	Trinidad
97	Trinidad	98	Trinidad
99	Trinidad	100	Trinidad

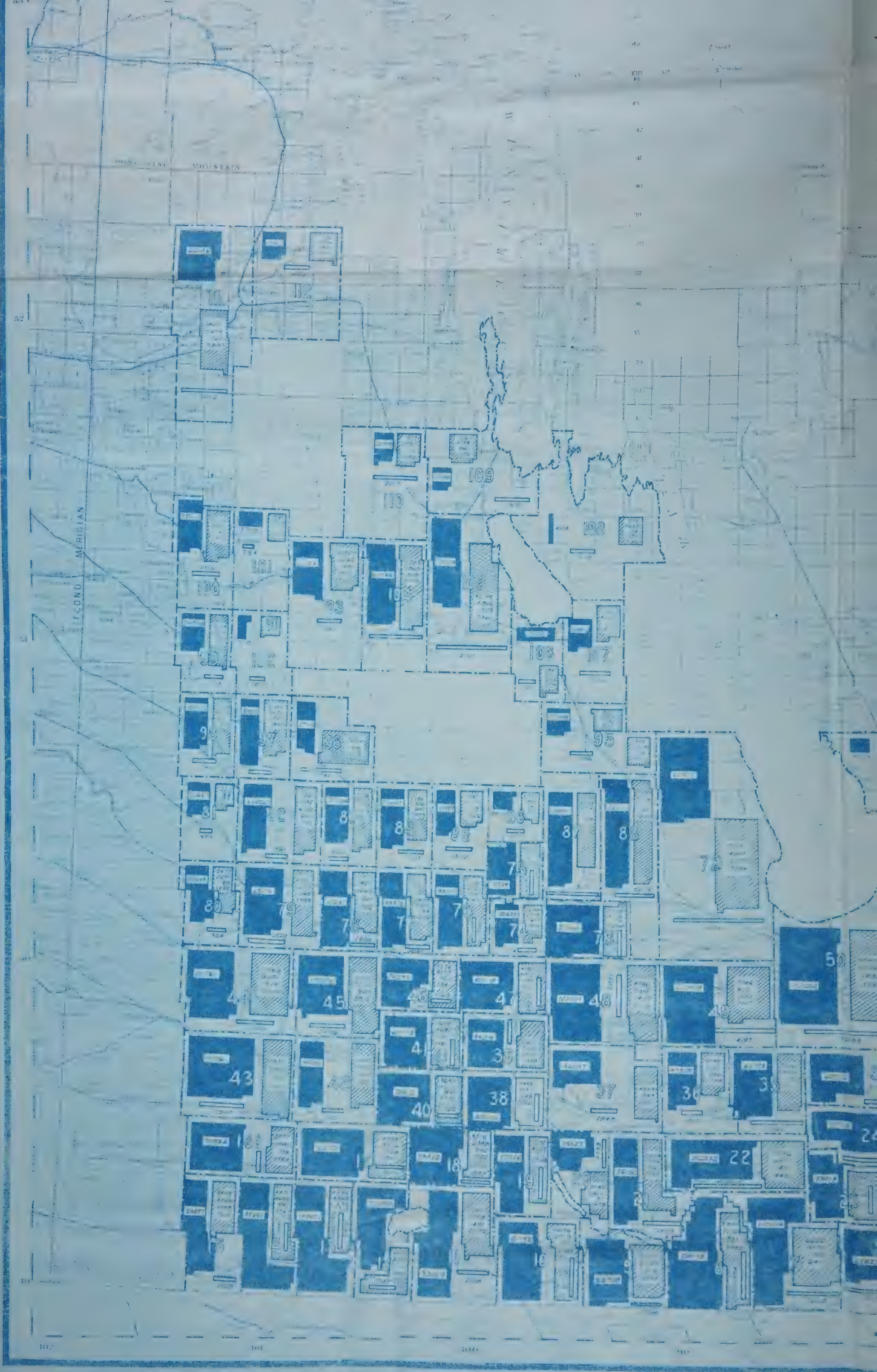


Municipalities - Alphabetical

Albert	16	McCreary	58
Archie	30	North York	49
Assiniboia	31	Norfolk South	48
Balfour	32	Oakland	47
Beaumont	33	Ochre River	46
Bentley	34	Okanish	45
Birds Nest	35	Pembina	44
Bonanza	36	Regina	43
Bonifant	37	Rocky Mountain	42
Bonville	38	Rocky Mountain	41
Bonville	39	Rocky Mountain	40
Bonville	40	Rocky Mountain	39
Bonville	41	Rocky Mountain	38
Bonville	42	Rocky Mountain	37
Bonville	43	Rocky Mountain	36
Bonville	44	Rocky Mountain	35
Bonville	45	Rocky Mountain	34
Bonville	46	Rocky Mountain	33
Bonville	47	Rocky Mountain	32
Bonville	48	Rocky Mountain	31
Bonville	49	Rocky Mountain	30
Bonville	50	Rocky Mountain	29
Bonville	51	Rocky Mountain	28
Bonville	52	Rocky Mountain	27
Bonville	53	Rocky Mountain	26
Bonville	54	Rocky Mountain	25
Bonville	55	Rocky Mountain	24
Bonville	56	Rocky Mountain	23
Bonville	57	Rocky Mountain	22
Bonville	58	Rocky Mountain	21
Bonville	59	Rocky Mountain	20
Bonville	60	Rocky Mountain	19
Bonville	61	Rocky Mountain	18
Bonville	62	Rocky Mountain	17
Bonville	63	Rocky Mountain	16
Bonville	64	Rocky Mountain	15
Bonville	65	Rocky Mountain	14
Bonville	66	Rocky Mountain	13
Bonville	67	Rocky Mountain	12
Bonville	68	Rocky Mountain	11
Bonville	69	Rocky Mountain	10
Bonville	70	Rocky Mountain	9
Bonville	71	Rocky Mountain	8
Bonville	72	Rocky Mountain	7
Bonville	73	Rocky Mountain	6
Bonville	74	Rocky Mountain	5
Bonville	75	Rocky Mountain	4
Bonville	76	Rocky Mountain	3
Bonville	77	Rocky Mountain	2
Bonville	78	Rocky Mountain	1

Municipalities - Numbered

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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MANITOBA

CANADIAN PACIFIC RAILWAY COMPANY COLONIZATION AND DEVELOPMENT BRANCH

J. S. DENNIS
CHIEF COMMISSIONER

COMPILED BY W. PEARCE
Calgary May 1918

Showing as units: Local Improvement Districts and area which will eventually become Local Improvement Districts and afterwards Municipalities.
Drawn to scale: The Cultivated area in acres, also Stock area in acres, Horses, Cattle, Sheep and Pigs with the area apportioned thereof.

LEGEND

Area under crop in acres plotted to scale with area shown in acres.



----- Municipalities or Local Improvement District where organized, where unorganized will be

Area to scale required for pasturage allowing 500 for each horse, 4000 for each head of cattle and 1000 for each sheep and pig. The area next Cattle next Sheep and bottom Pigs.



2104 Population other than that in Cities, Towns and Villages. Note: Non-urban in this differs from what is classed as rural in the majority of the other graphs issued by this office. The said rural is non-urban plus 1% of Cities, 8% of the Towns and 20% of the Villages, located within said units.

N° 52 1460 820 1442 706

N° 28

N° 54 2072 178 308

N° 55 176 204

N° 56 1768 1768

N° 58 772 210 147 104

N° 61 875 137 148 0

N° 62 994 272 109 0

N° 63 2654 474 135 426

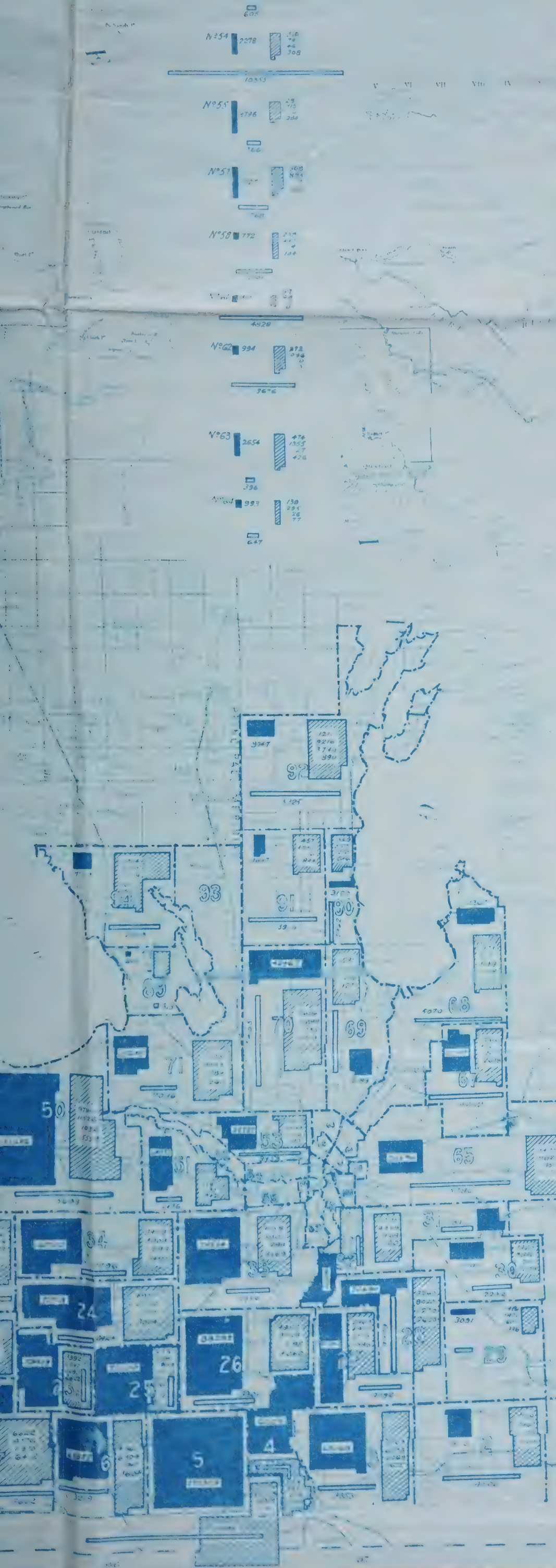
N° 64 993 138 235 26 77

Municipalities - Alphabetical

Albert	16	McCreary	95
Archie	80	Norfolk North	49
Argyle	21	Norfolk South	35
Arthur	14	Oakland	38
Armstrong	93	Ochre River	106
Assiniboia	54	Odanah	74
Balfour	32	Pembina	7
Birtle	82	Pipestone	43
Blanshard	77	Portage la Prairie	50
Boulton	101	Rhineland	5
Brenda	13	Ritchot	32
Brokenshire	67	Riverside	19
Cameron	17	Roblin	9
Cartier	51	Rockwood	70
Charleswood	55	Roland	25
Clanwilliam	86	Rosedale	87
Cornwallis	39	Rossburn	96
Coldwell	94	Rosser	59
Cypress North	48	Russell	98
Cypress South	37	Saskatchewan	76
Daly	46	Shelburne	99
Dauphin	105	Shell River	100
De Salaberry	27	Shoal Lake	83
Dufferin	24	Sifton	42
Edward	15	Silver Creek	97
Ellice	81	Sprague	1
Elton	47	Springfield	65

Municipalities - Numbered

1 Sprague	57 Ft. Garry
2 St. Anthony	58 St. Vital
3 Franklin	59 St. Boniface
4 Montcalm	60 Transition
5 Rhineland	61 Hudson L.
6 Stanley	62 Pilgrimage W.
7 Pembina	63 St. Paul W.
8 Louise	64 St. Paul E.
9 Roblin	65 Springfield
10 Turtle Mountain	66 Whitewater
11 Morton	67 Brudenhead
12 Winchester	68 St. Clement
13 Brenda	69 St. Andrews
14 Arthur	70 Rockwood
15 Edward	71 Woodlands
16 Albert	72 Westbourne
17 Cameron	73 Langford
18 Whitewater	74 Odanah
19 Riverside	75 Minto
20 Strathcona	76 Saskatchewan
21 Argyle	77 Blanshard
22 Lorne	78 Hamiota
23 Thompson	79 Miniota
24 Dufferin	80 Archie
25 Roland	81 Ellice
26 Morris	82 Birtle
27 De Salaberry	83 Shoal Lake



Municipalities - Alphabetical

Albert	16	McCreary	95
Archie	90	Norfolk North	49
Argyle	21	Norfolk South	35
Assiniboia	54	Oakman	38
Balfour	32	Ochre River	106
Birtle	32	Odessa	7
Blanshard	32	Pembina	43
Boulton	32	Pipestone	50
Brenda	32	Portage la Prairie	5
Brudenhead	32	Rhineland	32
Carleton Place	32	Riverside	19
Cartier	32	Rockwood	3
Charleswood	32	Roland	70
Cornwallis	32	Rosedale	25
Coldwell	32	Rossburn	97
Cypress North	32	Russell	96
Daly	32	Shelburne	59
Dauphin	32	Shellmouth	98
De Salaberry	32	Shoal Lake	76
Dufferin	32	Sifton	99
Edward	32	Silver Creek	100
Ellice	32	Stanley	83
Elton	32	Springfield	42
Franklin	32	St. Anne	97
Gilbert Plains	32	St. Andrew	1
Gimli	32	St. Charles	65
Grandview	32	St. Clement	6
Grandview	32	St. Francis	20
Gray	32	St. George	54
Hammond	32	St. John	2
Hanover	32	St. Joseph	111
Harvey	32	St. Lawrence	30
Hecla	32	St. Paul E.	69
Highway 1	32	St. Paul W.	64
Highway 2	32	St. Rose	63
Highway 3	32	St. Vincent	107
Highway 4	32	St. Xavier	59
Highway 5	32	Taché	58
Highway 6	32	Thompson	31
Highway 7	32	Thompson	23
Highway 8	32	Thompson	60
Highway 9	32	Thompson	10
Highway 10	32	Thompson	56
Highway 11	32	Thompson	36
Highway 12	32	Thompson	44
Highway 13	32	Thompson	72
Highway 14	32	Thompson	41
Highway 15	32	Thompson	46
Highway 16	32	Thompson	18
Highway 17	32	Thompson	53
Highway 18	32	Thompson	12
Highway 19	32	Thompson	71
Highway 20	32	Thompson	45

Municipalities - Numbered

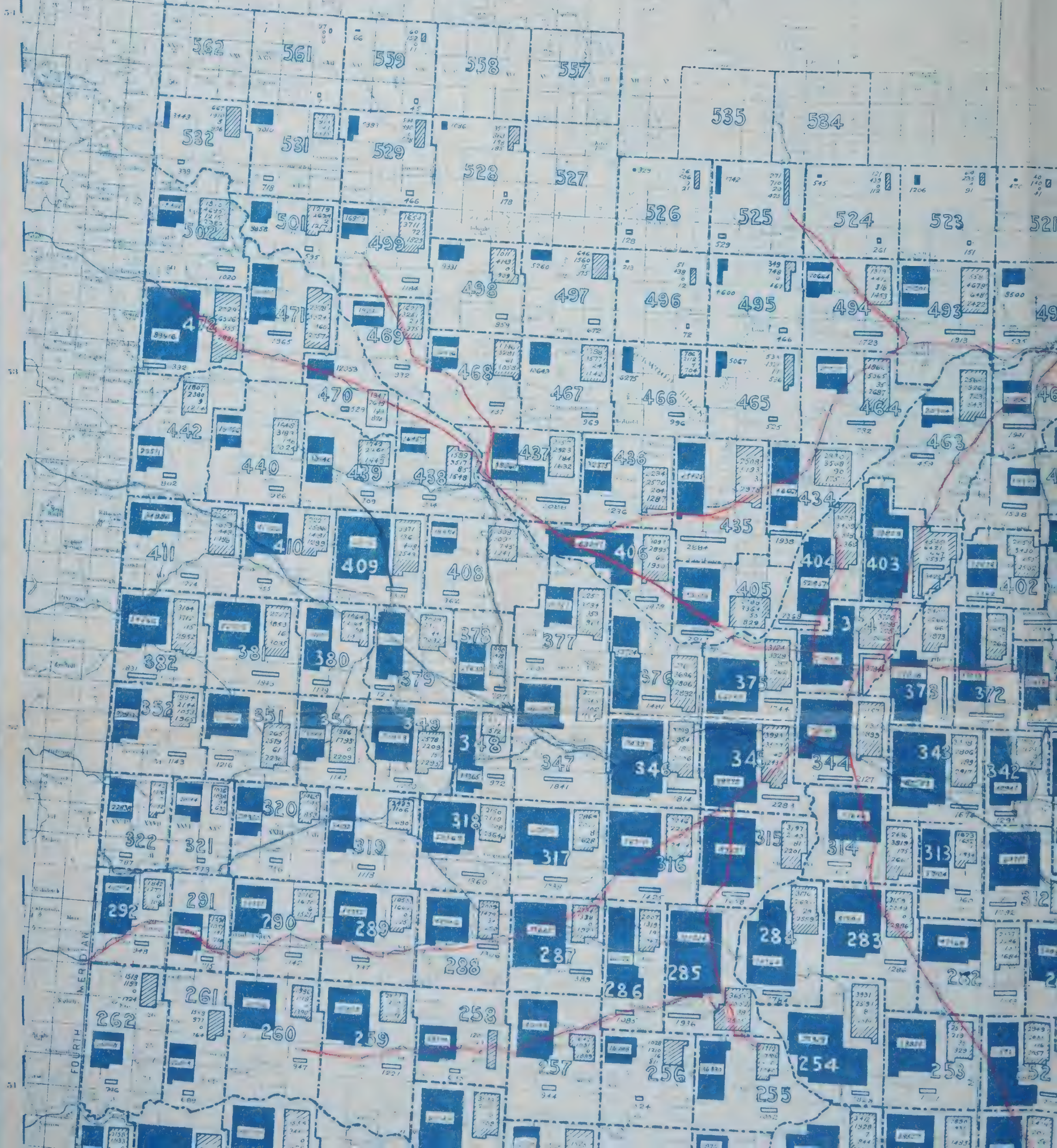
1	Opague	57	St. Mary
2	St. Anthony	58	St. Vital
3	Franklin	59	St. Boniface
4	Montcalm	60	Trinité
5	Rhineland	61	Winnipeg E.
6	Stanley	62	Winnipeg W.
7	Pembina	63	St. Paul W.
8	Louisa	64	St. Paul E.
9	Roblin	65	Springfield
10	Thompson	66	Thompson
11	Murton	67	Brudenhead
12	Winnipeg	68	St. Clement
13	Brenda	69	St. Andrew
14	Arthur	70	Rockwood
15	Edward	71	Woodlands
16	Albert	72	Westbourne
17	Cameron	73	Langford
18	Whitewater	74	Odessa
19	Riverside	75	Minto
20	Strathcona	76	Wassenaar
21	Argyle	77	Blanshard
22	Lorne	78	Hamilton
23	Thompson	79	Minota
24	Dufferin	80	Archie
25	Roland	81	Ellice
26	Manitoba	82	Birtle
27	De Salaberry	83	Shoal Lake
28	Hanover	84	Strathclair
29	La Broquerie	85	Harrison
30	St. Anne	86	Conway
31	Tache	87	Rosedale
32	Mitchell	88	Lansdowne
33	Macdonald	89	St. Laurent
34	Grey	90	Gimli
35	Norfolk South	91	Kreuzburg
36	Victoria	92	Balfour
37	Cypress South	93	Armstrong
38	Ugawana	94	Coldwell
39	Cornwallis	95	McCreary
40	Glenwood	96	Hosburn
41	Whitehead	97	Silver Creek
42	Sifton	98	Russell
43	Pipestone	99	Shellmouth
44	Wallace	100	Shell River
45	Woodworth	101	Boulton
46	Daly	102	Hillsburg
47	Elton	103	Grandview
48	Cypress North	104	Gilbert Plains
49	Norfolk North	105	Dauphin
50	Portage la Prairie	106	Ochre River
51	Cartier	107	St. Rose
52	St. Francois Xavier	108	Lawrence
53	Hosburn	109	Mossey River
54	Assiniboia	110	Ethelbert
55	Charleswood	111	Swan River
56	Thompson	112	Minot





WAA-1974-169-2100-002-005

CAN



SASKATCHEWAN

Scale: 1:792,000 or 12 1/2 Miles to 1 Inch.

CANADIAN PACIFIC RAILWAY COMPANY

COLONIZATION AND DEVELOPMENT BRANCH

J. S. DENNIS
CHIEF COMMISSIONER

COMPUTED BY W. PEARCE
Calgary 18 May 1918

Showing as units each Municipality, Local Improvement Districts and area which will eventually become Local Improvement Districts and afterwards Municipalities.

Drawn to scale: The Cultivated area in acres, also Stock area in acres, Horses, Cattle, Sheep, and Pigs, with the area apportioned thereof.

LEGEND

Area under crop in acres, plotted to scale with area shown in acres



4

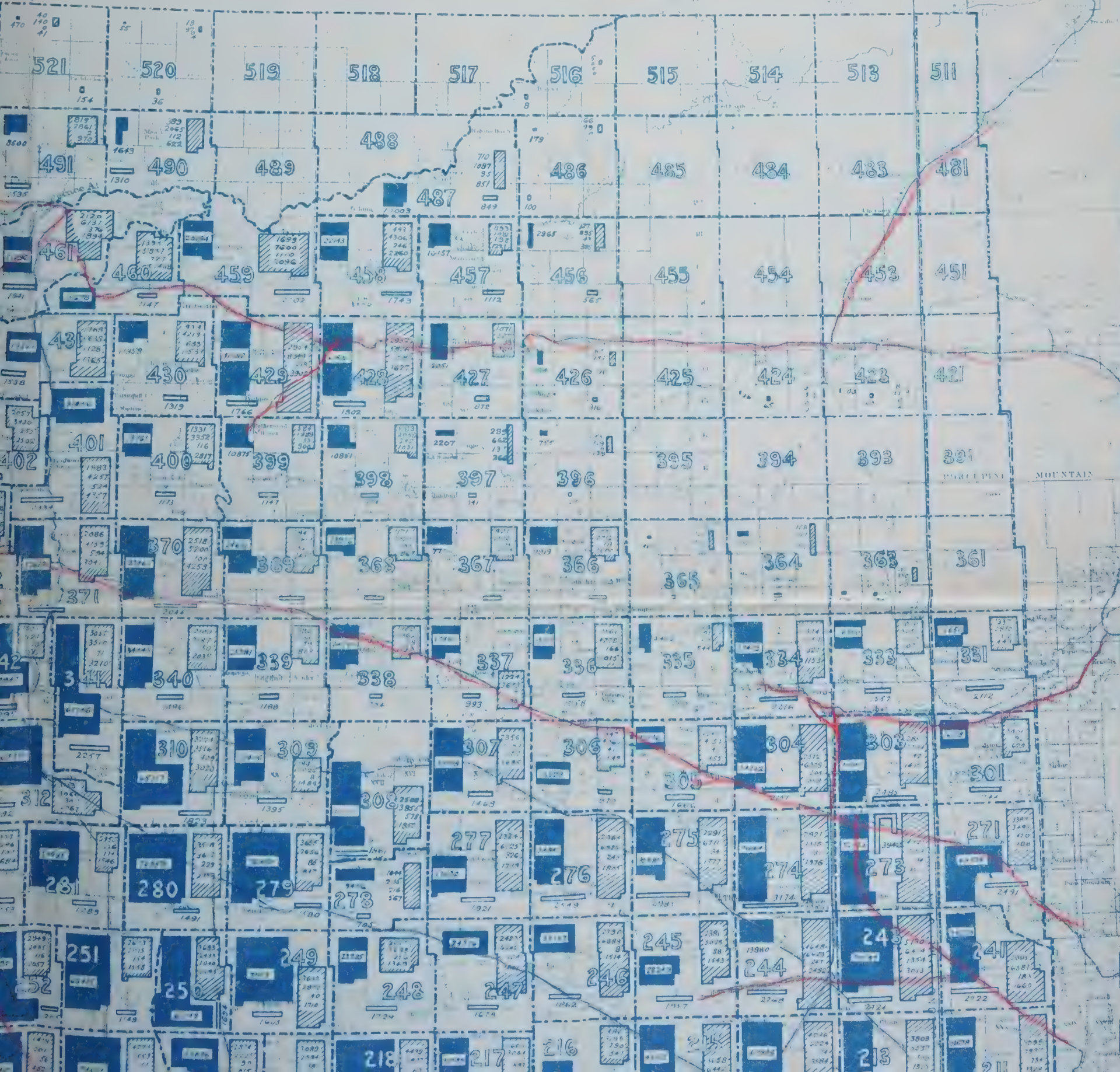
Municipalities or Local Improvement District where organized; where unorganized will be.

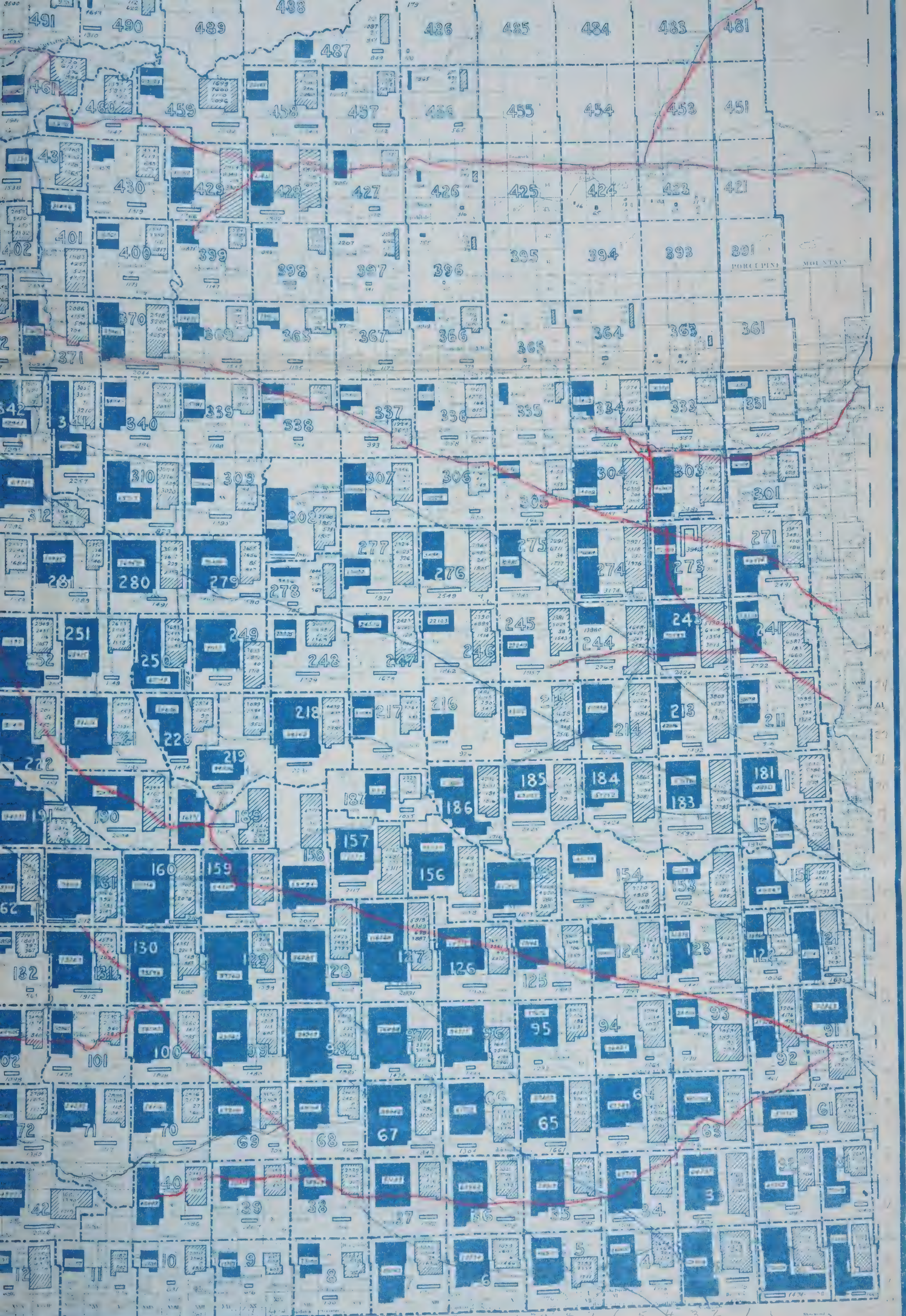
Acres to scale required for pastureage allowing 500 for each horse, 400 for each head of cattle and 100 for each sheep and pig. The upper figures show the No of Horses, next Cattle, next Sheep, and bottom Pigs.



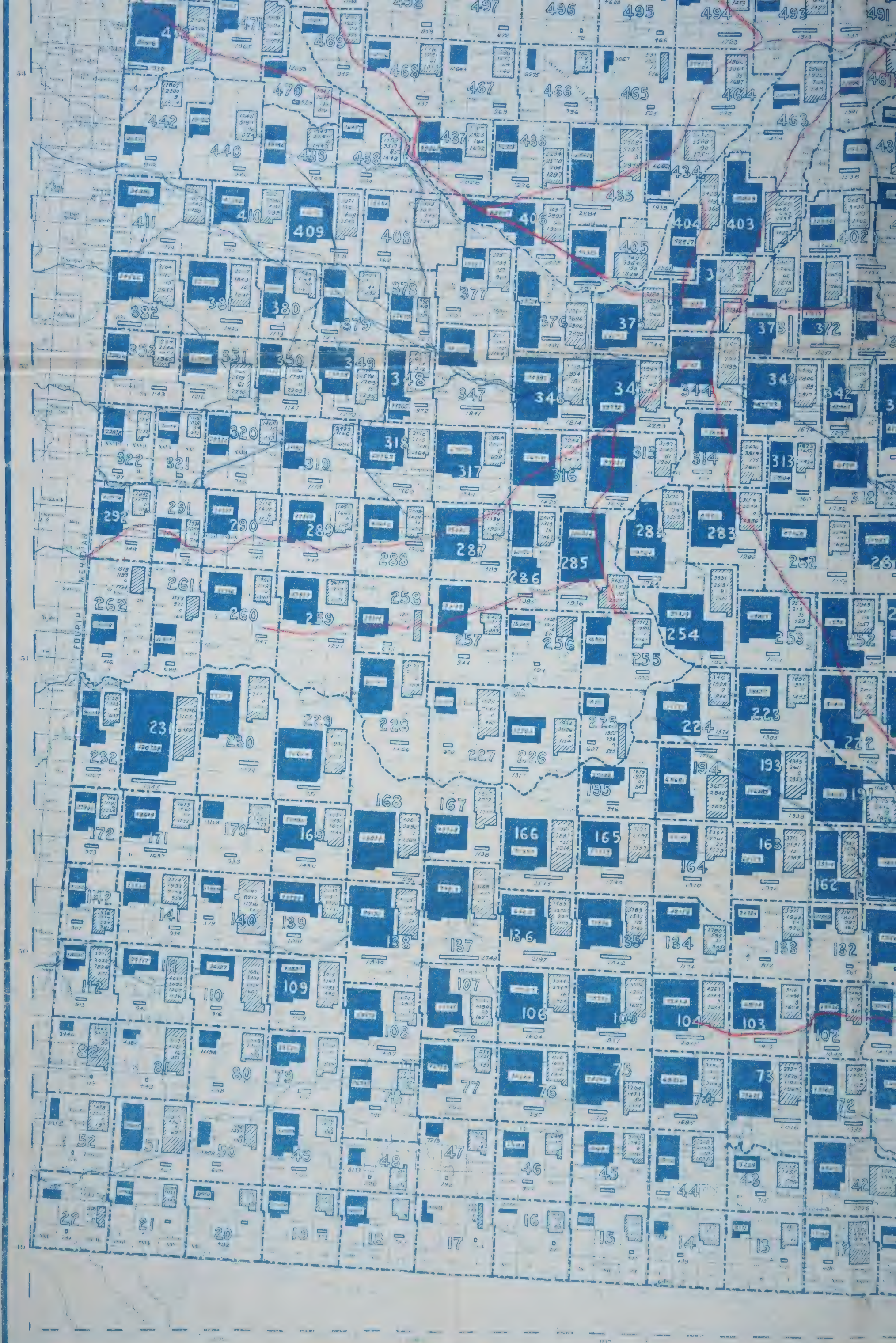
2124 Population other than that in Cities, Towns and Villages. Note: Non-urban in this differs from what is classed as rural in the majority of the other graphs issued by this office. The said rural is non-urban plus 4% of Cities, 8% of the Towns and 20% of the Villages, located within said units.

N°26





23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
Red C.N. ↑
Blue G.T.P.



1896.

back.

Transcript

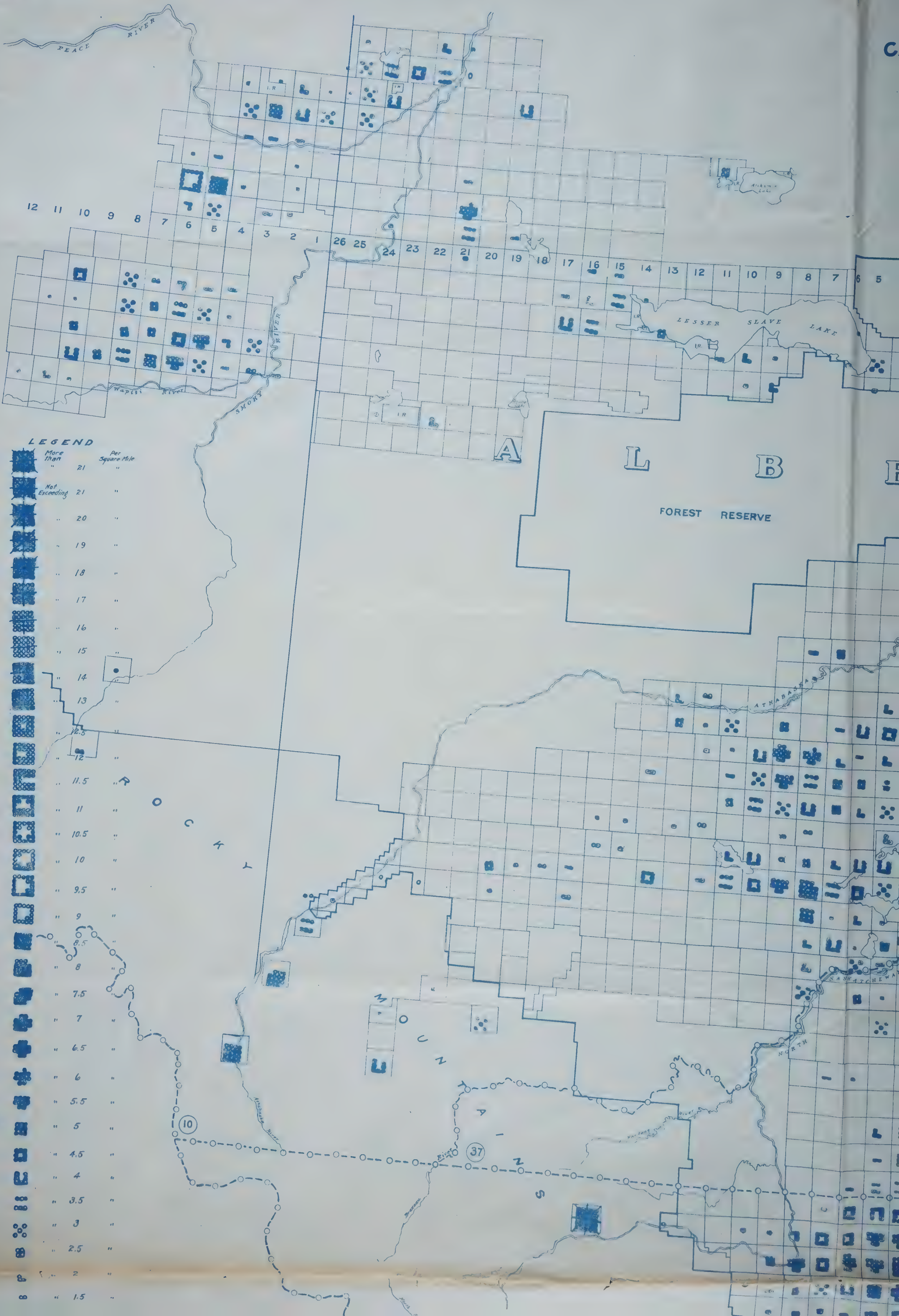
—

1896.

back.

2

DOE W14-1-200-002 003



LEGEND

More than 21	Per Square Mile
Not Exceeding 21	"
" 20	"
" 19	"
" 18	"
" 17	"
" 16	"
" 15	"
" 14	"
" 13	"
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" 3	"
" 2.5	"
" 2	"
" 1.5	"

CANADIAN PACIFIC RAILWAY COMPANY

COLONIZATION AND DEVELOPMENT BRANCH

J. S. DENNIS

CHIEF COMMISSIONER

COMPILED BY W. PEARCE
Calgary 30 Jan. 1918.

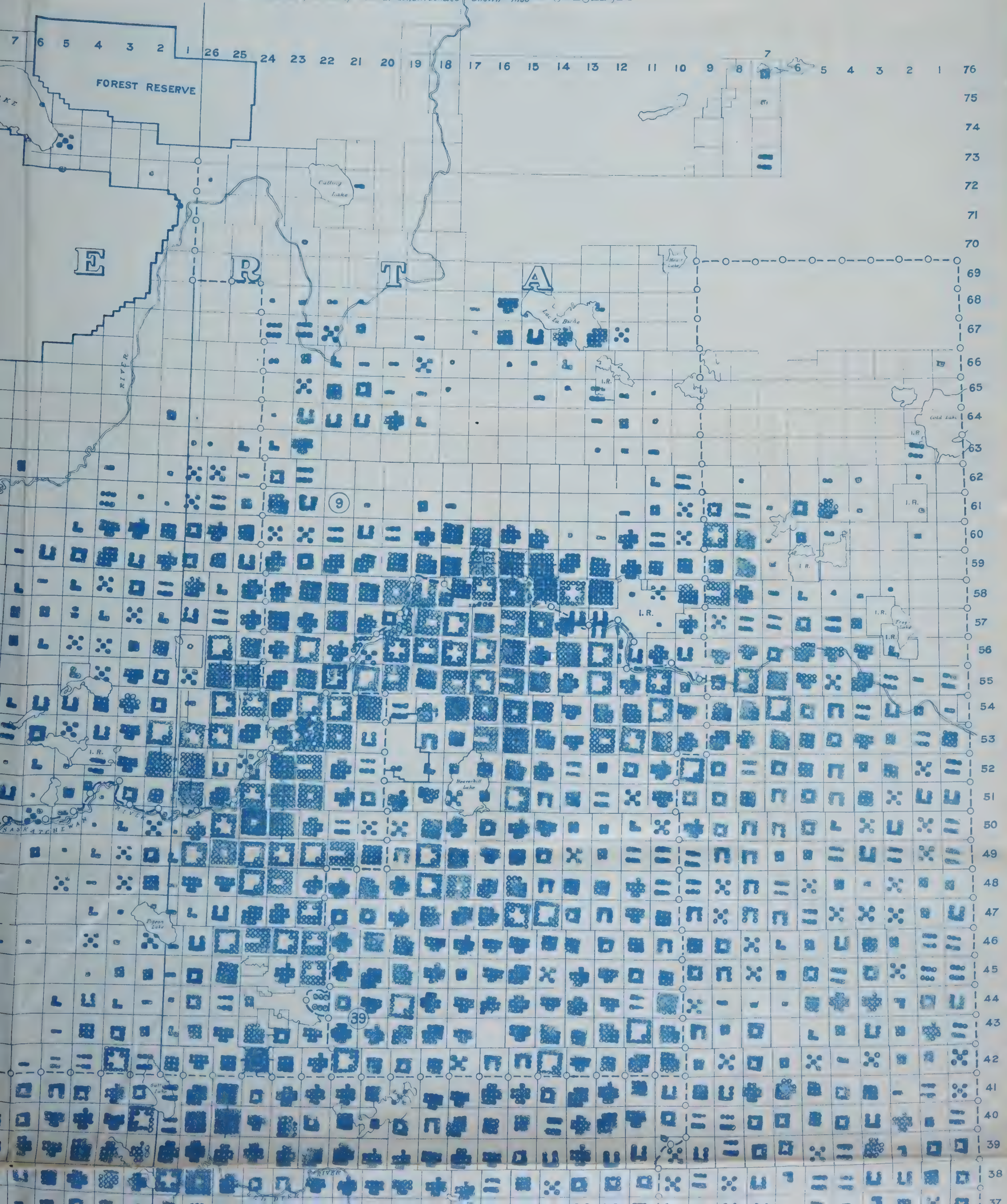
No 18

Census June 1916

Graph — Rural Population by Townships; Federal Constituencies.
Also showing by Federal Constituencies Annual Output, Grain, Stock, Cultivated Land, Lands open for entry etc etc
There are 43 Federal Constituencies in the 3 Prairie Provinces. The rank locates the subject treated for the whole of the said Provinces.

—N.B.— Owing to non controllable circumstances there were some slight errors in data on
graph of Alberta dated 25th June 1917. Please substitute for such, the data in this.

Note: Boundary Lines of Federal Constituencies shown thus — ○—○—○—○—○—





Sheep per unit of Rural Population				
Rank	Constituencies	Value	Rank	Constituencies
1	Calgary W.	1.02	11	Edmonton W.
2	Calgary E.	0.78	12	Edmonton E.
3	Calgary N.	0.53	13	Edmonton N.
4	Calgary S.	0.51	14	Edmonton S.
5	Calgary W.	0.49	15	Edmonton W.
6	Calgary E.	0.31	16	Edmonton E.
7	Calgary N.	0.22	17	Edmonton N.
8	Calgary S.	0.14	18	Edmonton S.

Total N° of Pigs				
Rank	Constituencies	Value	Rank	Constituencies
1	Calgary W.	11,650	11	Edmonton W.
2	Calgary E.	11,111	12	Edmonton E.
3	Calgary N.	10,148	13	Edmonton N.
4	Calgary S.	10,231	14	Edmonton S.
5	Calgary W.	10,148	15	Edmonton W.
6	Calgary E.	10,148	16	Edmonton E.
7	Calgary N.	10,148	17	Edmonton N.
8	Calgary S.	10,148	18	Edmonton S.

N° of Pigs per unit of Rural Population				
Rank	Constituencies	Value	Rank	Constituencies
1	Calgary E.	2.35	11	Edmonton W.
2	Calgary W.	2.37	12	Edmonton E.
3	Calgary N.	2.12	13	Edmonton N.
4	Calgary S.	2.09	14	Edmonton S.
5	Calgary W.	2.00	15	Edmonton W.
6	Calgary E.	1.88	16	Edmonton E.
7	Calgary N.	1.75	17	Edmonton N.
8	Calgary S.	1.65	18	Edmonton S.

Railway Mileage in Sequence not including double track				
Rank	Constituencies	Value	Rank	Constituencies
1	Edmonton W.	518.4	11	Edmonton W.
2	Edmonton E.	378.2	12	Edmonton E.
3	Edmonton N.	150.6	13	Edmonton N.
4	Edmonton S.	102.3	14	Edmonton S.
5	Edmonton W.	292.7	15	Edmonton W.
6	Edmonton E.	292.0	16	Edmonton E.
7	Edmonton N.	265.5	17	Edmonton N.
8	Edmonton S.	207.1	18	Edmonton S.

Rural Population per Mile of Railway				
Rank	Constituencies	Value	Rank	Constituencies
1	Strathcona	162.1	11	Edmonton W.
2	Strathcona	120.9	12	Edmonton E.
3	Strathcona	102.4	13	Edmonton N.
4	Strathcona	90.30	14	Edmonton S.
5	Strathcona	90.30	15	Edmonton W.
6	Strathcona	64.10	16	Edmonton E.
7	Strathcona	63.30	17	Edmonton N.
8	Strathcona	63.20	18	Edmonton S.

Output per Mile of Railway				
Rank	Constituencies	Value	Rank	Constituencies
1	Macleod	35,141	11	Edmonton W.
2	Macleod	24,579	12	Edmonton E.
3	Macleod	24,579	13	Edmonton N.
4	Macleod	24,579	14	Edmonton S.
5	Macleod	24,579	15	Edmonton W.
6	Macleod	24,579	16	Edmonton E.
7	Macleod	24,579	17	Edmonton N.
8	Macleod	24,579	18	Edmonton S.

per Farm				
Rank	Constituencies	Value	Rank	Constituencies
1	Calgary W.	20.15	11	Edmonton W.
2	Calgary E.	19.33	12	Edmonton E.
3	Calgary N.	19.47	13	Edmonton N.
4	Calgary S.	19.66	14	Edmonton S.
5	Calgary W.	19.66	15	Edmonton W.
6	Calgary E.	19.66	16	Edmonton E.
7	Calgary N.	19.66	17	Edmonton N.
8	Calgary S.	19.66	18	Edmonton S.

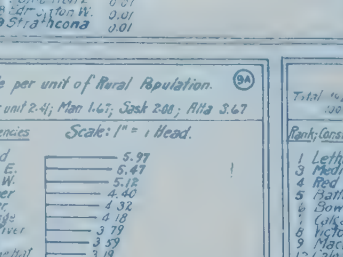
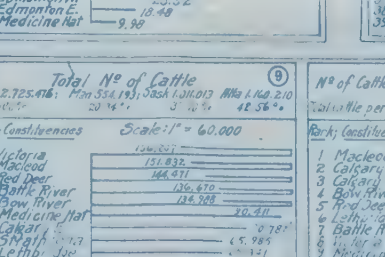
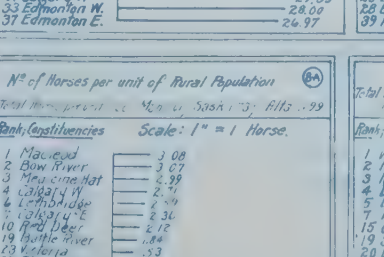
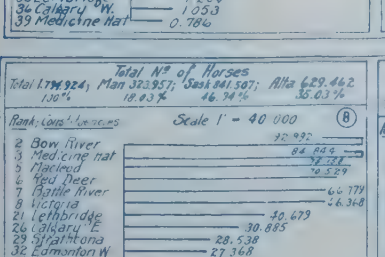
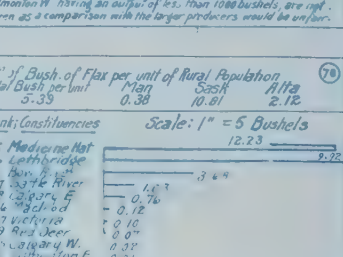
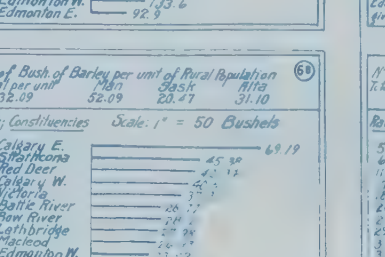
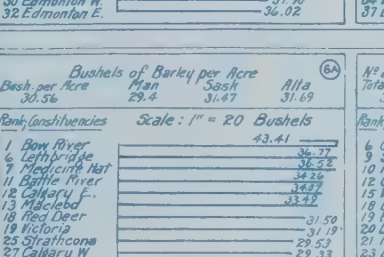
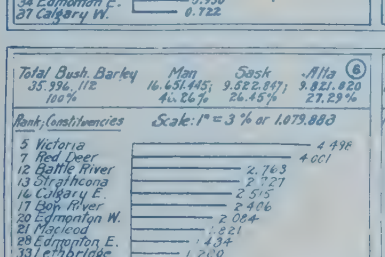
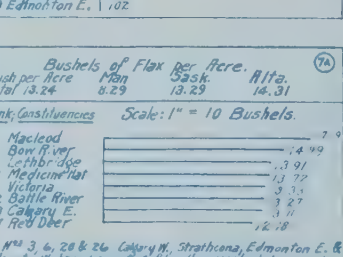
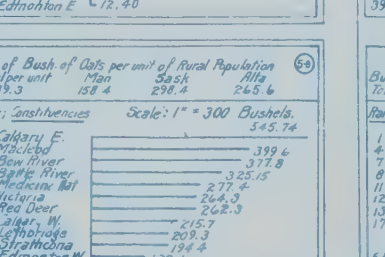
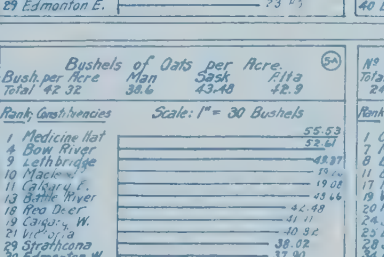
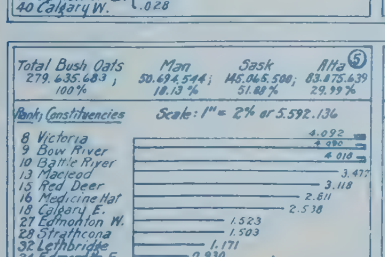
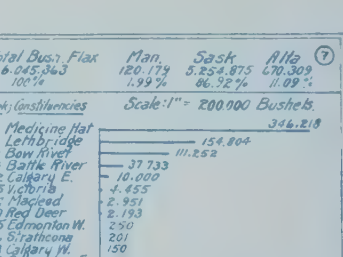
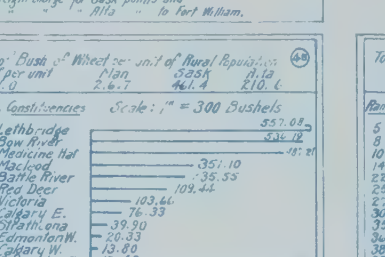
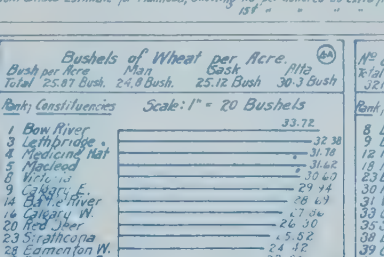
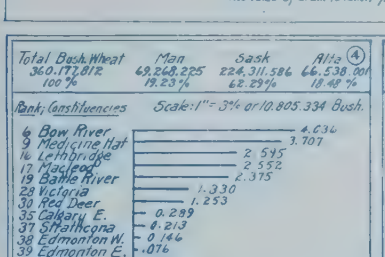
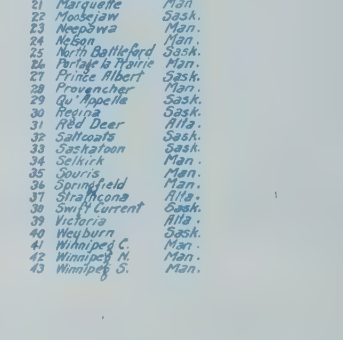
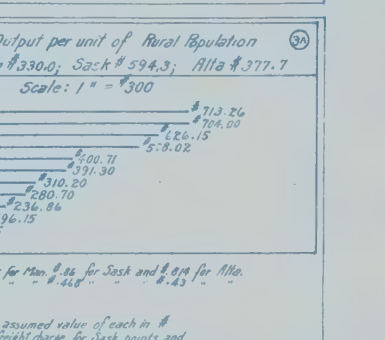
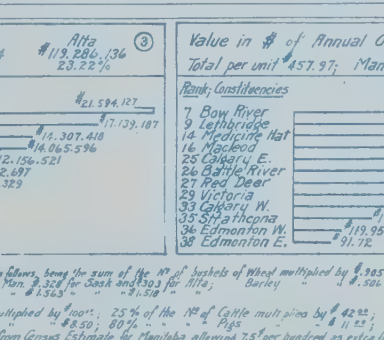
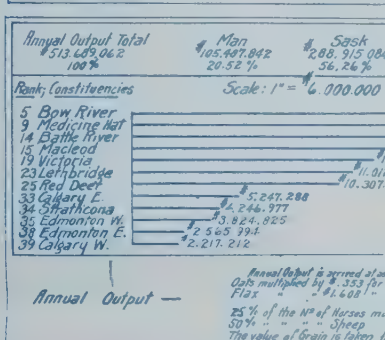
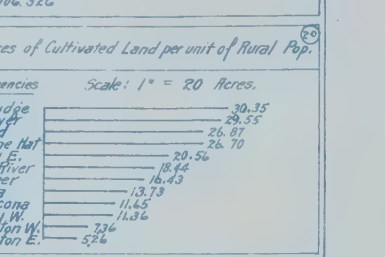
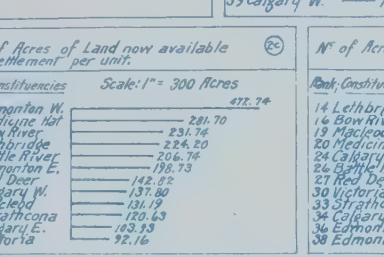
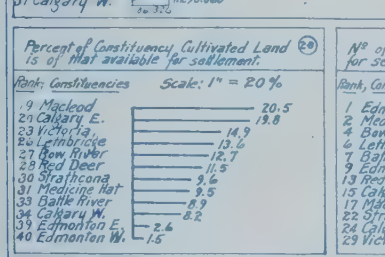
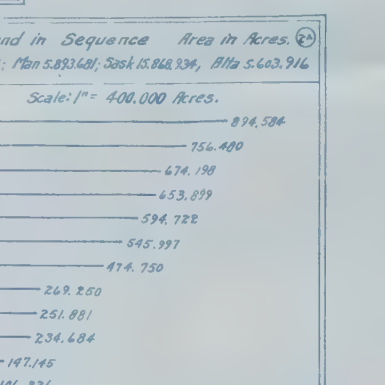
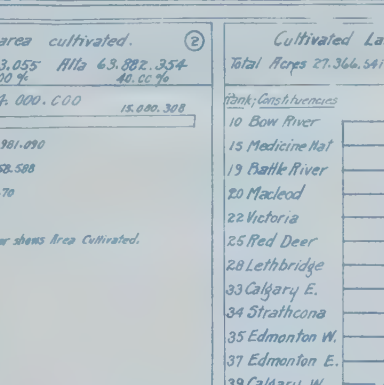
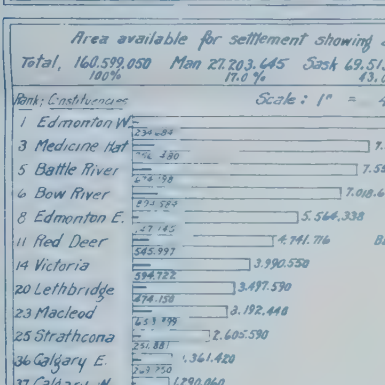
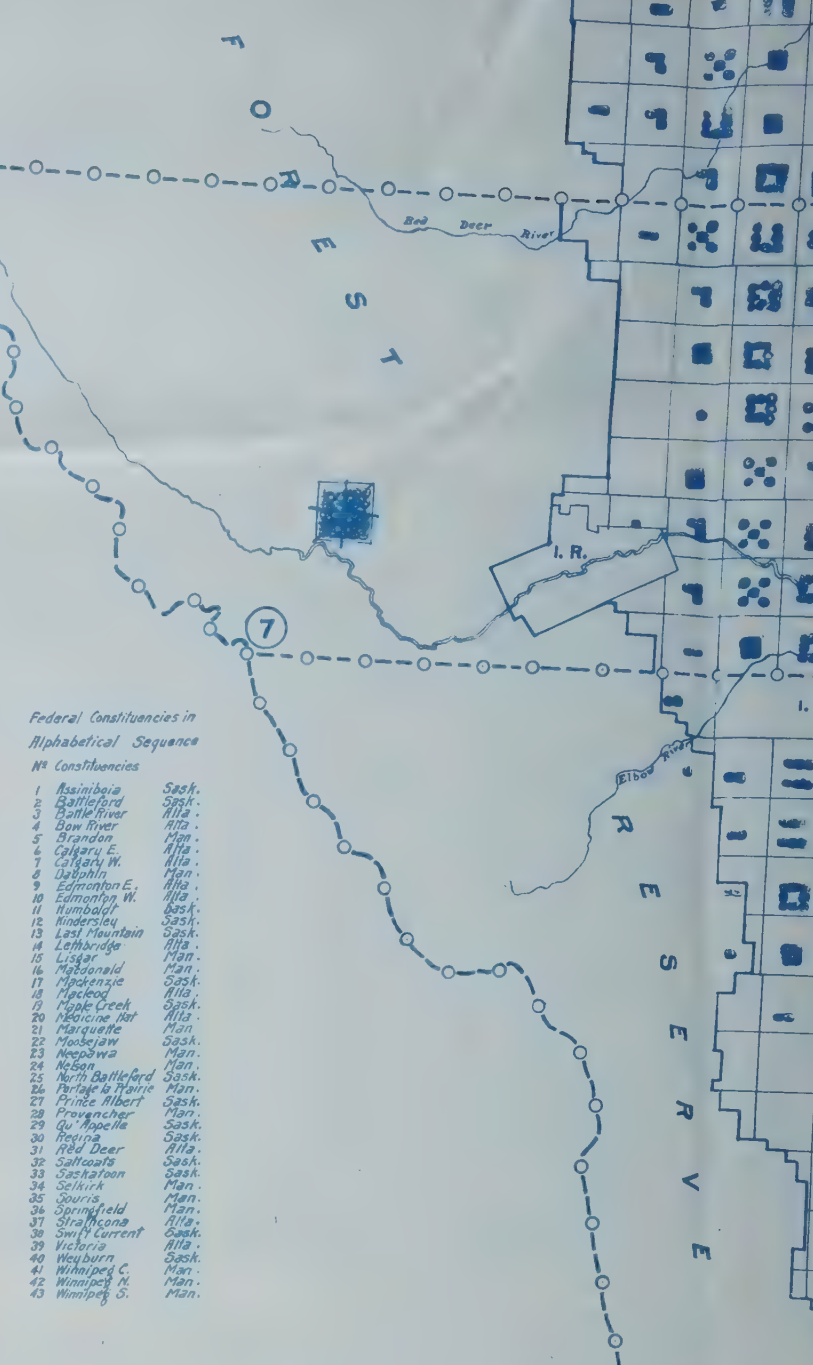
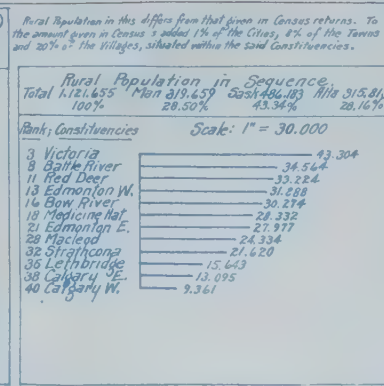
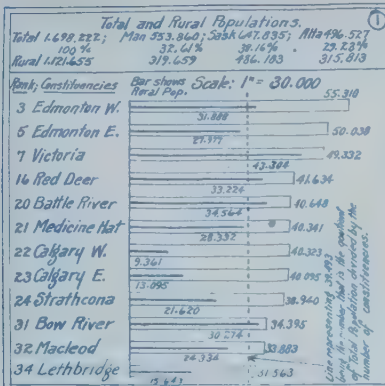
Sheep per Farm				
Rank	Constituencies	Value	Rank	Constituencies
1	Calgary W.	39.08	11	Edmonton W.
2	Calgary E.	39.08	12	Edmonton E.
3	Calgary N.	39.08	13	Edmonton N.
4	Calgary S.	39.08	14	Edmonton S.
5	Calgary W.	39.08	15	Edmonton W.
6	Calgary E.	39.08	16	Edmonton E.
7	Calgary N.	39.08	17	Edmonton N.
8	Calgary S.	39.08	18	Edmonton S.

Pigs per Farm				
Rank	Constituencies	Value	Rank	Constituencies
1	Calgary E.	13.84	11	Edmonton W.
2	Calgary W.	12.48	12	Edmonton E.
3	Calgary N.	10.97	13	Edmonton N.
4	Calgary S.	10.97	14	Edmonton S.
5	Calgary W.	9.63	15	Edmonton W.
6	Calgary E.	9.63	16	Edmonton E.
7	Calgary N.	9.63	17	Edmonton N.
8	Calgary S.	9.63	18	Edmonton S.

Rural Pop. per Farm				
Rank	Constituencies	Value	Rank	Constituencies
1	Calgary W.	5.40	11	Edmonton W.
2	Calgary E.	5.40	12	Edmonton E.
3	Calgary N.	5.40	13	Edmonton N.
4	Calgary S.	5.40	14	Edmonton S.
5	Calgary W.	5.40	15	Edmonton W.
6	Calgary E.	5.40	16	Edmonton E.
7	Calgary N.	5.40	17	Edmonton N.
8	Calgary S.	5.40	18	Edmonton S.

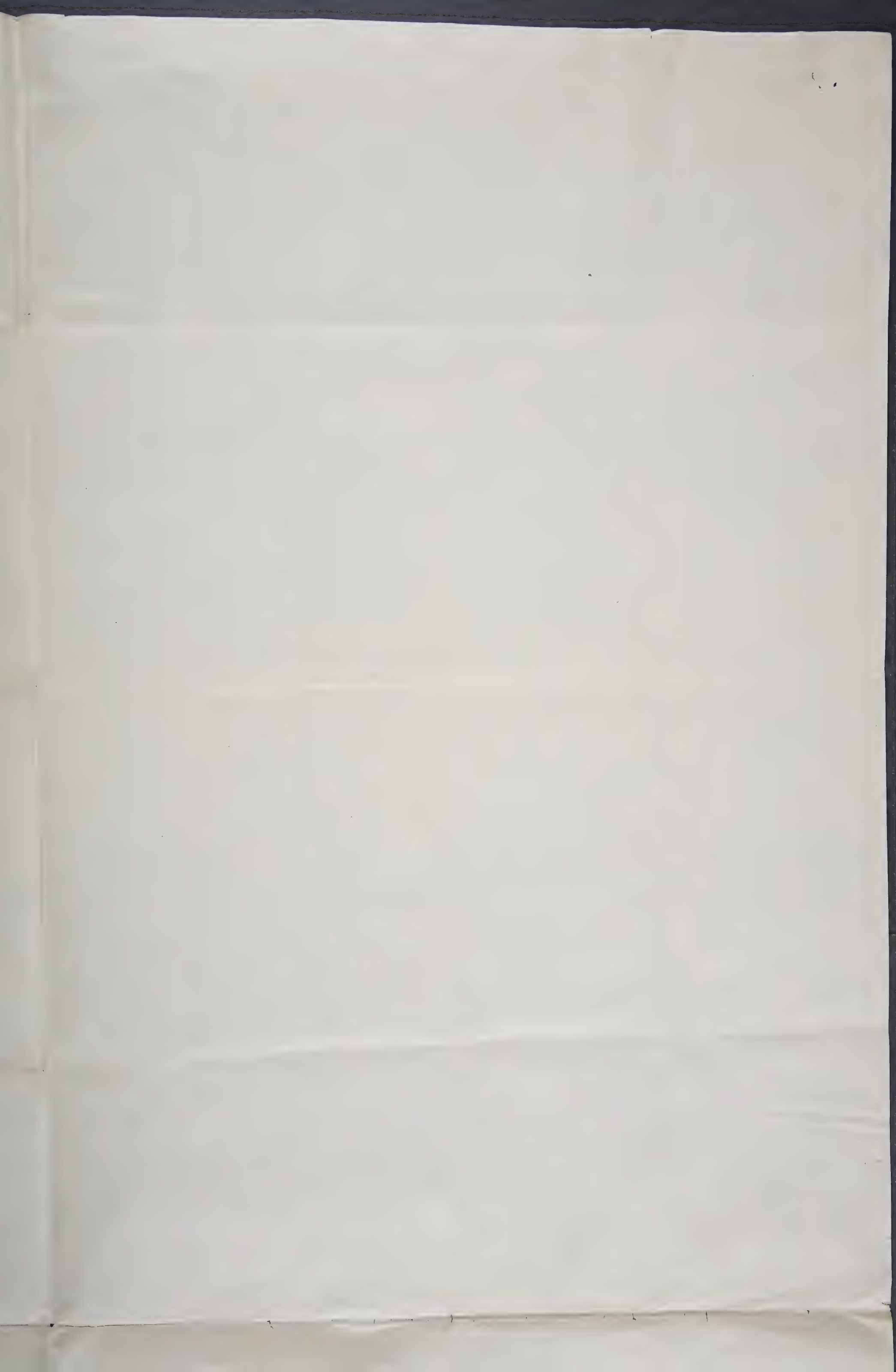
Annual Output per Farm				
Rank	Constituencies	Value	Rank	Constituencies
1	Calgary W.	4,405.01	11	Edmonton W.
2	Calgary E.	4,405.01	12	Edmonton E.
3	Calgary N.	4,405.01	13	Edmonton N.
4	Calgary S.	4,405.01	14	Edmonton S.
5	Calgary W.	4,405.01	15	Edmonton W.
6	Calgary E.	4,405.01	16	Edmonton E.
7	Calgary N.	4,405.01	17	Edmonton N.
8	Calgary S.	4,405.01	18	Edmonton S.

Annual Output per Farm				
Rank	Constituencies	Value	Rank	Constituencies
1	Calgary W.	4,405.01	11	Edmonton W.
2	Calgary E.	4,405.01	12	Edmonton E.
3	Calgary N.	4,405.01	13	Edmonton N.
4	Calgary S.	4,405.01	14	Edmonton S.
5	Calgary W.	4,405.01	15	Edmonton W.
6	Calgary E.	4,405.01	16	Edmonton E.
7	Calgary N.	4,405.01	17	Edmonton N.
8	Calgary S.	4,405.01	18	Edmonton S.



No 19.
Albion
Dunlop
Nite
1875

St
1875



The attached; map of Alberta and several graphs thereon.

On the map each township in which there is any Rural Population, the same is represented by dots. By adding one to the number of dots and dividing the sum by two, gives the Rural Population per square mile in said township up to 13. Above 13 see legend; The object sought to be obtained is that the map will represent clearly and readily the differences in density of population.

The three Prairie Provinces contain 43 Federal Constituencies and in each except the three for Winnipeg, there is a Rural Population. A list of these Constituencies arranged alphabetically showing in which Province it is located may be found at the upper left hand corner. In reference to production there are only 40 constituencies shown, the three for Winnipeg being for obvious reasons omitted.

The Rural Population differs from the number given in the Census as 1% of the Cities, 8% of the Towns and 20% of the Villages have been assumed as engaged in rural operations and therefore have been added to the number given by the Census in the Constituencies where the same are situated.

As to Total Output, see note to special graph No. 3.

SPECIAL GRAPHS

There are also 13 special graphs, numbered 1 to 13.

No. 1.- 2 Sections. 1. Shows Total Population in order of numbers, and thereon by solid bar the Rural Population. 1A. Shows Rural Population in sequence of numbers.

No. 2.- 5 Sections. 2. Showing the area in acres of the lands now available for settlement. 2A. Area of cultivated land in sequence. 2B. Percentage of constituency that cultivated land is of that available for settlement. 2C. Number of acres available for settlement per unit of Rural Population. 2D. Acres of cultivated land per unit of Rural Population.

No. 3.- 2 Sections. 3. Total Annual Output. 3A. Annual Output per unit of Rural Population. (See note representing Annual Output.)

No. 4.- 3 Sections. 4. Total bushels of wheat. 4A. Bushels of wheat per acre. 4B. Bushels of wheat per unit of Rural Population.

No. 5.- 3 Sections. 5. Total bushels of oats. 5A. Bushels of oats per acre. 5B. Bushels of oats per unit of Rural Population.

No. 6.- 3 Sections. 6. Total bushels of barley. 6A. Bushels of barley per acre. 6B. Bushels of barley per unit of Rural Population.

No. 7.- 3 Sections. 7. Total bushels of flax. 7A. Bushels of flax per acre. 7B. Bushels of flax per unit of Rural Population.

No. 8.- 2 Sections. 8. Total number of horses. 8A. Number of horses per unit of Rural Population.

No. 9.- 2 Sections. 9. Total number of cattle. 9A. Number of cattle per unit of Rural Population.

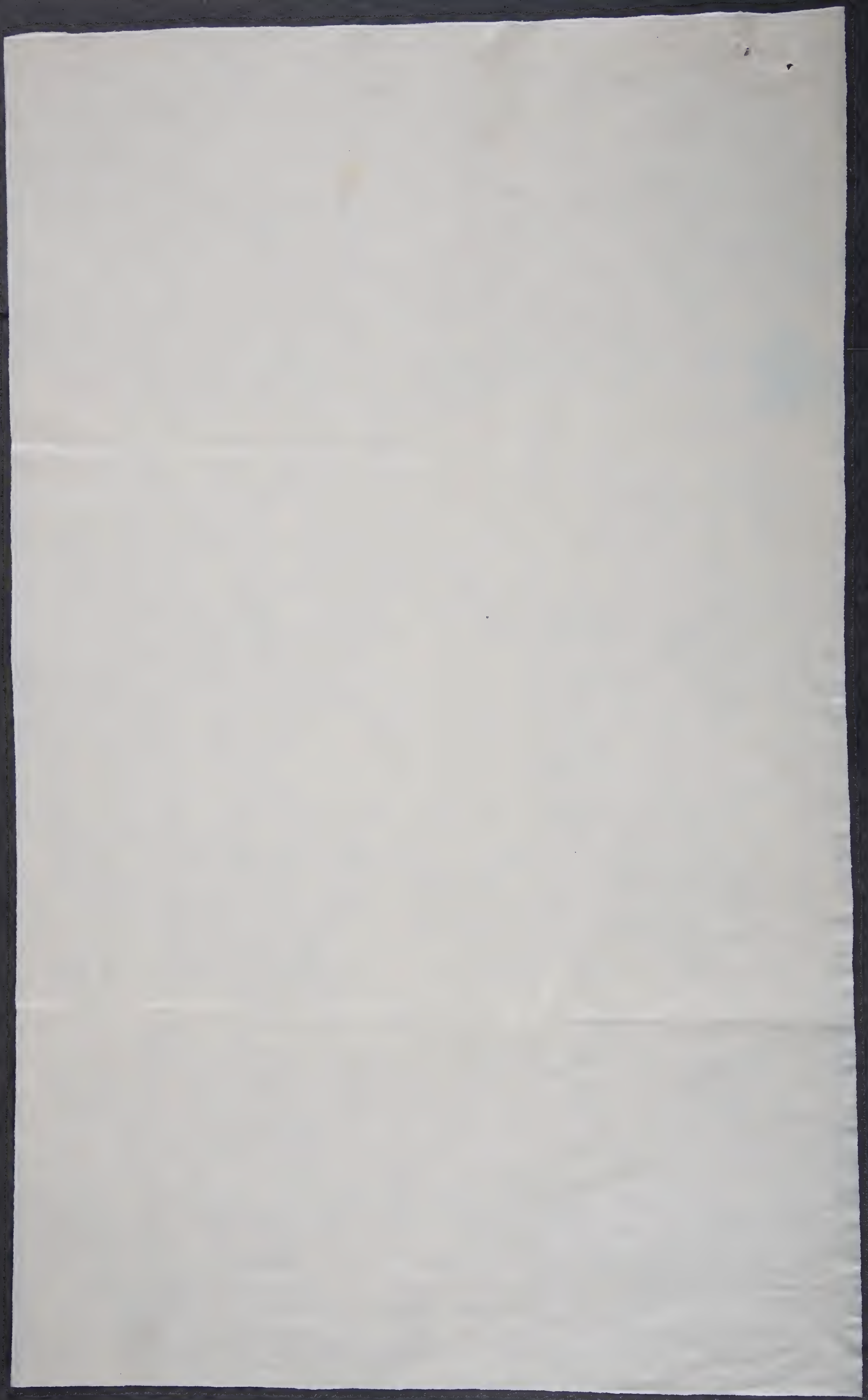
No. 10.- 2 Sections. 10. Total number of sheep. 10A. Number of sheep per unit of Rural Population.

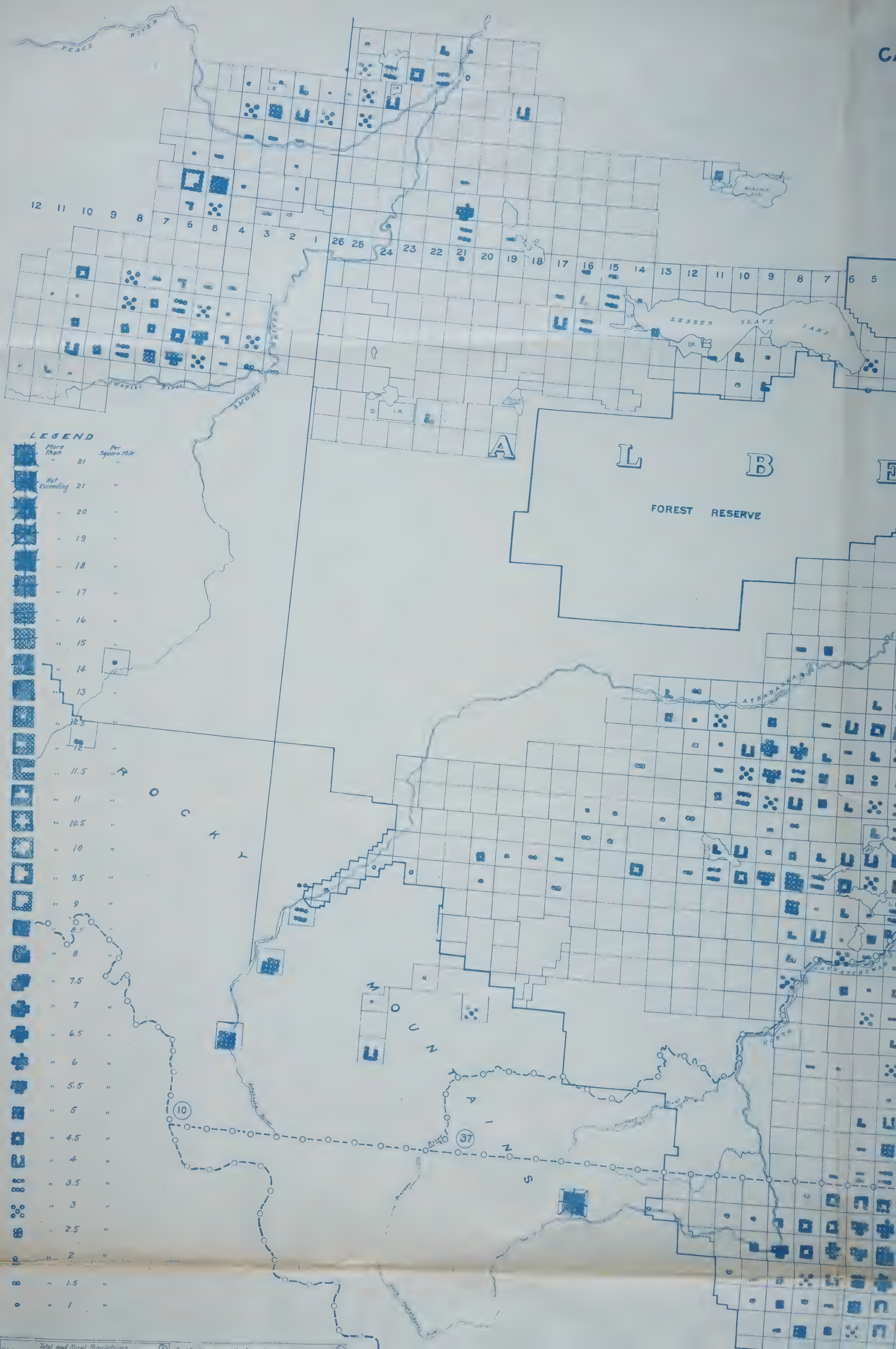
No. 11.- 2 Sections. 11. Total number of pigs. 11A. Number of pigs per unit of Rural Population.

No. 12.- 3 Sections. 12. Total railway mileage in sequence. 12A. Rural Population per mile of railway. 12B. Annual output per mile of railway.

No. 13.- 8 Sections. 13. Number of farms. 13A. Number of acres per farm. 13B. Number of horses per farm. 13C. Number of cattle per farm. 13D. Number of sheep per farm. 13E. Number of pigs per farm. 13F. Number of Rural Population per farm. 13G. Annual Output per farm.

Calgary, Alberta. 30th January, 1918.





LEGEND

More than 21	Per Square Mile
Not Exceeding 21	"
" 20	"
" 19	"
" 18	"
" 17	"
" 16	"
" 15	"
" 14	"
" 13	"
" 12	"
" 11.5	"
" 11	"
" 10.5	"
" 10	"
" 9.5	"
" 9	"
" 8.5	"
" 8	"
" 7.5	"
" 7	"
" 6.5	"
" 6	"
" 5.5	"
" 5	"
" 4.5	"
" 4	"
" 3.5	"
" 3	"
" 2.5	"
" 2	"
" 1.5	"
" 1	"

CANADIAN PACIFIC RAILWAY COMPANY

COLONIZATION AND DEVELOPMENT BRANCH

J. S. DENNIS

CHIEF COMMISSIONER

No 18

Census June 1916

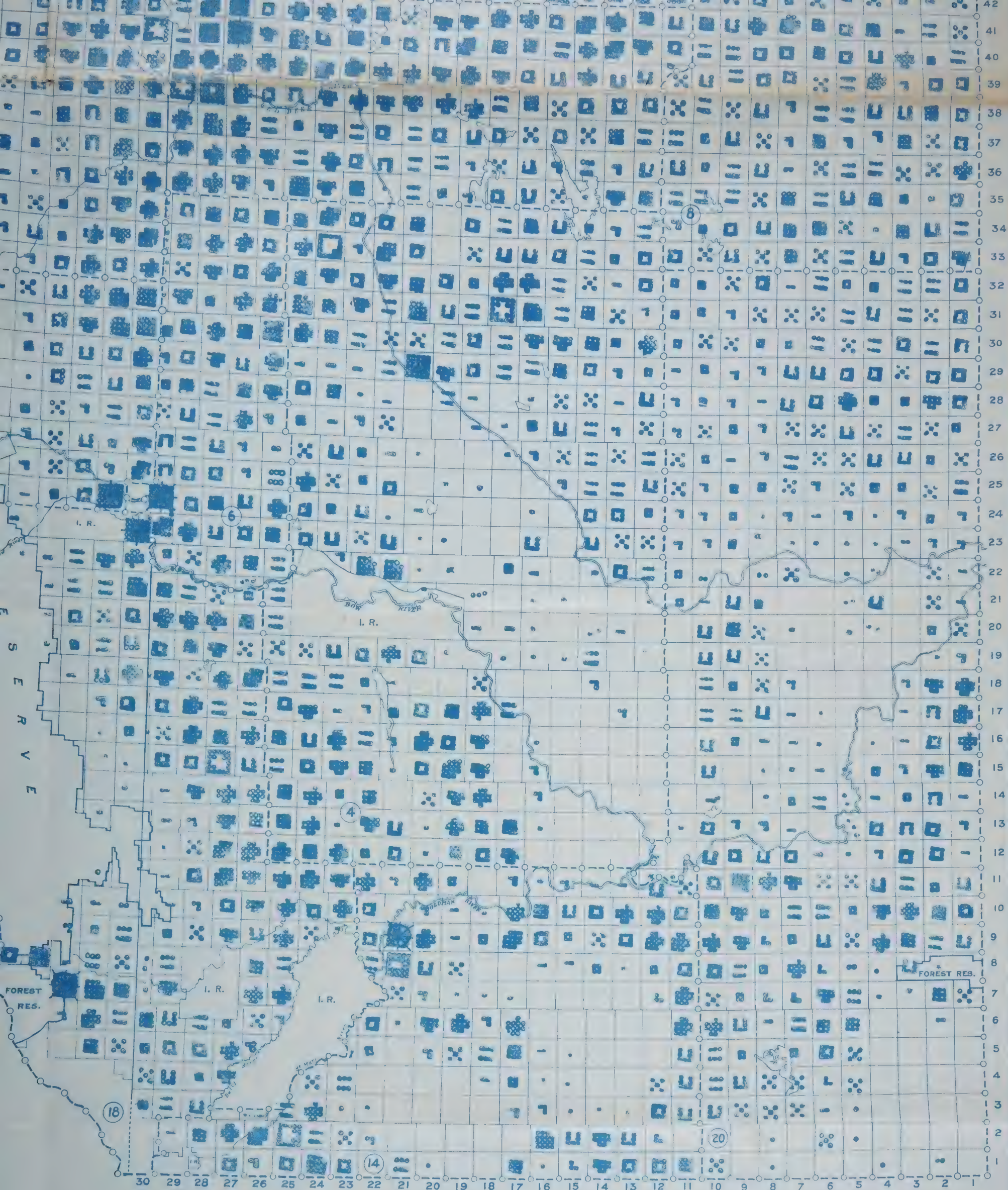
COMPILED BY W. PEACE
April 30 Jan. 1918.

Graph — Rural Population by Townships; Federal Constituencies.
Also showing by Federal Constituencies Annual Output, Grain, Stock, Cultivated Land, Lands open for entry etc. etc.
There are 43 Federal Constituencies in the 3 Prairie Provinces. The rank locates the subject treated for the whole of the said Provinces.

— N.B. — Owing to non controllable circumstances there were some slight errors in data on graph of Alberta dated 25th June 1917. Please substitute for such, the data in this.

Note: Boundary Lines of Federal Constituencies shown thus — ○—○—○—○—





No. of Sheep per unit of Rural Population	Man	Sask	Alta
0.44	0.24	0.25	0.92
Constituencies	Scale: 1" = 3 Sheep		
1. Leithbridge	8.80		
2. Calgary E	1.07		
3. Calgary W	0.82		
4. Ban River	0.78		
5. Medicine Hat	0.59		
6. Battle River	0.51		
7. Strathcona	0.41		
8. Edmonton E	0.31		
9. Edmonton W	0.22		
10. Medicine Hat	0.14		

Total No of Pigs	Man	Sask	Alta
1,337,087	265,896	527,727	603,556
100%	15.39%	39.47%	45.14%
Rank, Constituencies	Scale: 1" = 50,000		
1. Victoria	78,700		
2. Red Deer	11,656		
3. Battle River	10,148		
4. Ban River	25,231		
5. Edmonton W	43,111		
6. Strathcona	33,146		
7. Medicine Hat	33,146		
8. Calgary E	35,376		
9. Calgary W	35,376		
10. Edmonton E	35,376		
11. Edmonton W	35,376		
12. Medicine Hat	35,376		
13. Strathcona	35,376		
14. Battle River	35,376		
15. Ban River	35,376		
16. Red Deer	35,376		
17. Victoria	35,376		

No of Pigs per unit of Rural Population	Man	Sask	Alta
1.69	1.69	1.31	
Rank, Constituencies	Scale: 1" = 2 Pigs		
1. Calgary E	2.75		
2. Victoria	2.34		
3. Red Deer	2.37		
4. Ban River	2.12		
5. Battle River	2.09		
6. Strathcona	2.09		
7. Medicine Hat	1.88		
8. Calgary W	1.75		
9. Edmonton W	1.65		
10. Edmonton E	1.42		
11. Edmonton W	1.28		
12. Medicine Hat	1.13		

Railway Mileage in Sequence not including double track	Man	Sask	Alta
46,715.5	46,715.5	46,715.5	46,715.5
100%	30.84%	39.69%	29.47%
Rank, Constituencies	Scale: 1" = 400 Miles		
1. Edmonton W	518.4		
2. Red Deer	478.2		
3. Ban River	456.6		
4. Victoria	392.3		
5. Battle River	392.3		
6. Edmonton E	282.0		
7. Medicine Hat	282.0		
8. Calgary W	282.0		
9. Strathcona	282.0		
10. Battle River	282.0		
11. Calgary E	207.1		
12. Calgary W	177.3		
13. Strathcona	133.4		

Rural Population per Mile of Railway	Man	Sask	Alta
46,715.5	46,715.5	46,715.5	46,715.5
100%	46.103	315.813	1121.655
per Mile	6.4	78.7	74.0
Rank, Constituencies	Scale: 1" = 100		
1. Strathcona	162.1		
2. Battle River	120.70		
3. Ban River	100.47		
4. Medicine Hat	100.47		
5. Calgary E	100.47		
6. Calgary W	100.47		
7. Edmonton W	100.47		
8. Edmonton E	100.47		
9. Strathcona	100.47		
10. Battle River	100.47		
11. Calgary E	100.47		
12. Calgary W	100.47		
13. Edmonton W	100.47		
14. Edmonton E	100.47		
15. Strathcona	100.47		
16. Battle River	100.47		
17. Ban River	100.47		
18. Red Deer	100.47		
19. Victoria	100.47		

Output per Mile of Railway	Man	Sask	Alta
3,539,842	3,539,842	3,539,842	3,539,842
100%	75.8	20.54%	46.31%
per Mile	33,539.5	46,032.43	23,157.0
Rank, Constituencies	Scale: 1" = 40,000		
1. Macleod	55.16		
2. Battle River	44.57		
3. Ban River	44.57		
4. Medicine Hat	44.57		
5. Calgary E	44.57		
6. Calgary W	44.57		
7. Edmonton W	44.57		
8. Edmonton E	44.57		
9. Strathcona	44.57		
10. Battle River	44.57		
11. Calgary E	44.57		
12. Calgary W	44.57		
13. Edmonton W	44.57		
14. Edmonton E	44.57		
15. Strathcona	44.57		
16. Battle River	44.57		
17. Ban River	44.57		
18. Red Deer	44.57		
19. Victoria	44.57		

Sheep per Farm	Man	Sask	Alta
492,511	76,751	124,237	291,523
100%	9.72	1.19	4.29
Rank, Constituencies	Scale: 1" = 10		
1. Leithbridge	3928		
2. Calgary W	17		
3. Calgary E	17		
4. Ban River	17		
5. Medicine Hat	17		
6. Battle River	17		
7. Strathcona	17		
8. Edmonton E	17		
9. Edmonton W	17		
10. Medicine Hat	17		
11. Strathcona	17		
12. Battle River	17		
13. Ban River	17		
14. Red Deer	17		
15. Victoria	17		

Pigs per Farm	Man	Sask	Alta
1,337,087	265,896	527,727	603,556
100%	4.37	5.07	8.89
Rank, Constituencies	Scale: 1" = 10		
1. Calgary E	18.97		
2. Victoria	18.97		
3. Red Deer	18.97		
4. Ban River	18.97		
5. Battle River	18.97		
6. Strathcona	18.97		
7. Medicine Hat	18.97		
8. Calgary W	18.97		
9. Edmonton W	18.97		
10. Edmonton E	18.97		
11. Edmonton W	18.97		
12. Medicine Hat	18.97		
13. Strathcona	18.97		
14. Battle River	18.97		
15. Ban River	18.97		
16. Red Deer	18.97		
17. Victoria	18.97		

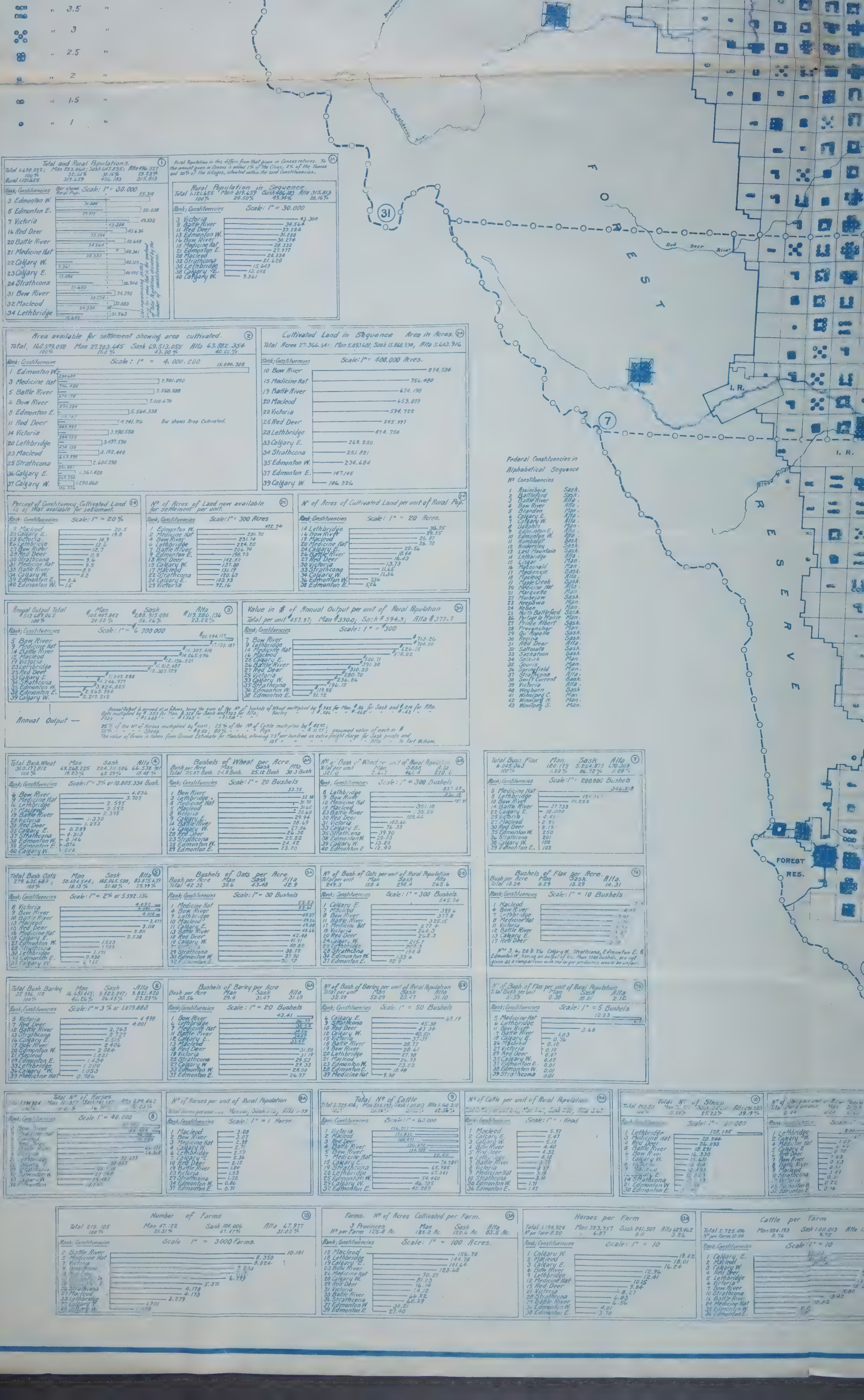
Rural Pop. per Farm	Man	Sask	Alta
1,337,087	265,896	527,727	603,556
100%	47.122	104.066	67.977
per Farm	5.12	4.67	4.65
Rank, Constituencies	Scale: 1" = 10		
1. Calgary W	5.40		
2. Victoria	5.40		
3. Red Deer	5.40		
4. Ban River	5.40		
5. Battle River	5.40		
6. Strathcona	5.40		
7. Medicine Hat	5.40		
8. Calgary E	5.40		
9. Edmonton W	5.40		
10. Edmonton E	5.40		
11. Edmonton W	5.40		
12. Medicine Hat	5.40		
13. Strathcona	5.40		
14. Battle River	5.40		
15. Ban River	5.40		
16. Red Deer	5.40		
17. Victoria	5.40		

Annual Output per Farm	Man	Sask	Alta
3,539,842	3,539,842	3,539,842	3,539,842
100%	75.8	20.54%	46.31%
per Farm	33,539.5	46,032.43	23,157.0
Rank, Constituencies	Scale: 1" = 2000		
1. Leithbridge	3,415.01		
2. Calgary W	1,707.51		
3. Calgary E	1,707.51		
4. Ban River	1,707.51		
5. Medicine Hat	1,707.51		
6. Battle River	1,707.51		
7. Strathcona	1,707.51		
8. Edmonton E	1,707.51		
9. Edmonton W	1,707.51		
10. Medicine Hat	1,707.51		
11. Strathcona	1,707.51		
12. Battle River	1,707.51		
13. Ban River	1,707.51		
14. Red Deer	1,707.51		
15. Victoria	1,707.51		

Sheep per Farm	Man	Sask	Alta
492,511	76,751	124,237	291,523
100%	9.72	1.19	4.29
Rank, Constituencies	Scale: 1" = 10		
1. Leithbridge	3928		
2. Calgary W	17		
3. Calgary E	17		
4. Ban River	17		
5. Medicine Hat	17		
6. Battle River	17		
7. Strathcona	17		
8. Edmonton E	17		
9. Edmonton W	17		
10. Medicine Hat	17		
11. Strathcona	17		
12. Battle River	17		
13. Ban River	17		
14. Red Deer	17		
15. Victoria	17		

Pigs per Farm	Man	Sask	Alta
1,337,087	265,896	527,727	603,556
100%	4.37	5.07	8.89
Rank, Constituencies	Scale: 1" = 10		
1. Calgary E	18.97		
2. Victoria	18.97		
3. Red Deer	18.97		
4. Ban River	18.97		
5. Battle River	18.97		
6. Strathcona	18.97		
7. Medicine Hat	18.97		
8. Calgary W	18.97		
9. Edmonton W	18.97		
10. Edmonton E	18.97		
11. Edmonton W	18.97		
12. Medicine Hat	18.97		
13. Strathcona	18.97		
14. Battle River	18.97		
15. Ban River	18.97		
16. Red Deer	18.97		
17. Victoria	18.97		

Rural Pop. per Farm	Man	Sask	Alta
1,337,087	265,896	527,727	603,556
100%	47.122	104.066	67.977
per Farm	5.12	4.67	4.65
Rank, Constituencies	Scale: 1" = 10		
1. Calgary W	5.40		
2. Victoria	5.40		
3. Red Deer	5.40		
4. Ban River	5.40		
5. Battle River	5.40		
6. Strathcona	5.40		
7. Medicine Hat	5.40		
8. Calgary E	5.40		
9. Edmonton W	5.40		
10. Edmonton E	5.40		
11. Edmonton W	5.40		
12. Medicine Hat	5.40		
13. Strathcona	5.40		
14. Battle River	5.40		
15. Ban River	5.40		
16. Red Deer	5.40		
17. Victoria	5.40		



Total and Rural Populations

Province	Total Pop.	Rural Pop.	% Rural
Man.	1,216,555	319,659	26.28%
Sask.	1,216,555	456,183	37.50%
Alta.	1,216,555	315,813	25.96%

Rank Constituencies

Rank	Constituency	Pop.
1	Edmonton W.	55,310
2	Edmonton E.	50,030
3	Victoria	49,332
4	Red Deer	41,634
5	Battle River	40,640
6	Medicine Hat	40,341
7	Calgary W.	40,095
8	Calgary E.	40,095
9	Strathcona	38,940
10	Bow River	34,395
11	MacLeod	33,803
12	Lethbridge	31,563

Rural Population in Sequence

Rank	Constituency	Pop.
1	Victoria	43,304
2	Battle River	34,564
3	Red Deer	33,224
4	Bow River	30,274
5	Medicine Hat	28,332
6	Edmonton E.	27,977
7	MacLeod	24,334
8	Strathcona	21,620
9	Lethbridge	15,643
10	Calgary W.	13,095
11	Calgary E.	9,361

Area available for settlement showing area cultivated.

Province	Total Area	Man.	Sask.	Alta.
Man.	160,599,050	27,203,445	69,513,055	63,882,550

Rank Constituencies

Rank	Constituency	Area
1	Edmonton W.	7,981,090
2	Medicine Hat	7,550,508
3	Battle River	7,010,470
4	Bow River	5,564,338
5	Edmonton E.	4,741,716
6	Red Deer	3,990,530
7	Victoria	3,497,590
8	Lethbridge	3,192,448
9	MacLeod	2,605,590
10	Strathcona	1,361,420
11	Calgary E.	1,290,060
12	Calgary W.	706,376

Cultivated Land in Sequence Area in Acres.

Rank	Constituency	Area
1	Bow River	894,584
2	Medicine Hat	756,490
3	Battle River	674,198
4	MacLeod	653,979
5	Victoria	594,722
6	Red Deer	545,997
7	Lethbridge	474,750
8	Calgary E.	269,250
9	Strathcona	261,881
10	Edmonton W.	234,684
11	Edmonton E.	147,145
12	Calgary W.	104,326

Percent of Constituency Cultivated Land

Rank	Constituency	% Cultivated
1	MacLeod	20.5
2	Calgary E.	19.8
3	Victoria	14.9
4	Lethbridge	12.7
5	Bow River	12.7
6	Red Deer	11.5
7	Strathcona	9.5
8	Medicine Hat	8.9
9	Battle River	8.9
10	Calgary W.	8.2
11	Edmonton E.	7.4
12	Edmonton W.	1.5

Nº of Acres of Land now available for settlement per unit.

Rank	Constituency	Acres
1	Edmonton W.	281.70
2	Medicine Hat	231.14
3	Bow River	224.50
4	Lethbridge	206.76
5	Battle River	198.73
6	Edmonton E.	142.82
7	Red Deer	137.80
8	Calgary W.	136.19
9	MacLeod	120.63
10	Strathcona	103.33
11	Calgary E.	92.16
12	Victoria	92.16

Nº of Acres of Cultivated Land per unit of Rural Pop.

Rank	Constituency	Acres
1	Lethbridge	30.35
2	Bow River	29.55
3	Medicine Hat	26.70
4	Battle River	20.56
5	Red Deer	18.34
6	Calgary E.	13.73
7	Strathcona	11.45
8	Calgary W.	11.36
9	Edmonton W.	7.36
10	Edmonton E.	5.26

Annual Output Total

Province	Total	Man.	Sask.	Alta.
Man.	313,689,062	48,248,842	288,915,084	119,286,136

Rank Constituencies

Rank	Constituency	Output
1	Bow River	17,139,187
2	Medicine Hat	14,307,410
3	Battle River	14,045,596
4	MacLeod	12,156,321
5	Victoria	10,102,697
6	Lethbridge	10,307,329
7	Red Deer	8,247,288
8	Strathcona	8,246,977
9	Edmonton W.	8,246,825
10	Edmonton E.	2,565,825
11	Calgary W.	2,217,212
12	Calgary E.	2,217,212

Value in \$ of Annual Output per unit of Rural Population

Rank	Constituency	Value
1	Bow River	113.26
2	Lethbridge	104.00
3	Medicine Hat	76.15
4	Battle River	76.02
5	Edmonton W.	400.71
6	Edmonton E.	391.30
7	Red Deer	310.80
8	Battle River	230.70
9	Victoria	230.86
10	Strathcona	39.50
11	Calgary W.	36.15
12	Edmonton W.	31.72
13	Edmonton E.	31.72

Federal Constituencies in Alphabetical Sequence

Nº	Constituency	Province
1	Assiniboia	Sask.
2	Battleford	Sask.
3	Battle River	Alta.
4	Bow River	Alta.
5	Brandon	Man.
6	Calgary E.	Alta.
7	Calgary W.	Alta.
8	Edmonton E.	Alta.
9	Edmonton W.	Alta.
10	Humboldt	Sask.
11	Lethbridge	Alta.
12	Lester B. Pearson	Man.
13	Lisgar	Man.
14	Macdonald	Sask.
15	MacLeod	Alta.
16	Marquette	Man.
17	Medicine Hat	Alta.
18	Monkton	Man.
19	Neepawa	Man.
20	Nelson	Man.
21	North Battleford	Sask.
22	Prince Albert	Sask.
23	Prince Rupert	Man.
24	Regina	Sask.
25	Red Deer	Alta.
26	Saskatoon	Sask.
27	Saskatoon	Man.
28	Saskatoon	Man.
29	Saskatoon	Man.
30	Saskatoon	Man.
31	Saskatoon	Man.
32	Saskatoon	Man.
33	Saskatoon	Man.
34	Saskatoon	Man.
35	Saskatoon	Man.
36	Saskatoon	Man.
37	Saskatoon	Man.
38	Saskatoon	Man.
39	Saskatoon	Man.
40	Saskatoon	Man.
41	Saskatoon	Man.
42	Saskatoon	Man.
43	Saskatoon	Man.

Total Bush Wheat

Province	Total	Man.	Sask.	Alta.
Man.	360,177,812	69,248,225	224,311,586	66,538,201

Rank Constituencies

Rank	Constituency	Output
1	Bow River	4,036
2	Medicine Hat	3,707
3	Battle River	2,552
4	MacLeod	2,552
5	Battle River	2,375
6	Victoria	1,330
7	Red Deer	1,253
8	Calgary E.	828
9	Strathcona	828
10	Edmonton W.	828
11	Edmonton E.	828
12	Calgary W.	828
13	Calgary E.	828

Bushels of Wheat per Acre

Province	Total	Man.	Sask.	Alta.
Man.	25.87 Bush	24.8 Bush	25.12 Bush	30.3 Bush

Rank Constituencies

Rank	Constituency	Output
1	Bow River	33.72
2	Lethbridge	32.38
3	Medicine Hat	31.70
4	MacLeod	31.62
5	Victoria	29.60
6	Edmonton E.	29.94
7	Red Deer	28.63
8	Calgary W.	27.06
9	MacLeod	26.30
10	Strathcona	25.82
11	Edmonton W.	24.42
12	Edmonton E.	23.80

Nº of Bush of Wheat per unit of Rural Population

Rank	Constituency	Output
1	Lethbridge	339.02
2	Bow River	339.02
3	Medicine Hat	351.10
4	MacLeod	351.10
5	Battle River	351.10
6	Red Deer	109.44
7	Victoria	109.44
8	Calgary E.	76.33
9	Strathcona	39.50
10	Calgary W.	36.15
11	Edmonton W.	31.72
12	Edmonton E.	31.72

Total Bush Flax

Province	Total	Man.	Sask.	Alta.
Man.	120,179	5,254,875	670,309	1,095

Rank Constituencies

Rank	Constituency	Output
1	Medicine Hat	154.12
2	Lethbridge	154.12
3	Bow River	37.733
4	Battle River	10,000
5	Calgary E.	4.45
6	Red Deer	2.95
7	Edmonton W.	2.19
8	Edmonton E.	2.19
9	Strathcona	2.01
10	Calgary W.	1.50
11	Calgary E.	1.02

Total Bush Oats

Province	Total	Man.	Sask.	Alta.
Man.	279,635,683	50,694,544	146,065,500	83,875,639

Rank Constituencies

Rank	Constituency	Output
1	Victoria	4,022
2	Bow River	4,022
3	Battle River	3,777
4	MacLeod	3,110
5	Battle River	2,811
6	Medicine Hat	2,538
7	Edmonton W.	1,523
8	Edmonton E.	1,523
9	Strathcona	1,171
10	Lethbridge	1,171
11	Edmonton E.	1,171
12	Calgary E.	1,171

Bushels of Oats per Acre

Province	Total	Man.	Sask.	Alta.
Man.	42.32	38.6	43.48	42.9

Rank Constituencies

Rank	Constituency	Output
1	Medicine Hat	55.53
2	Bow River	53.61
3	Lethbridge	48.97
4	MacLeod	48.97
5	Battle River	49.08
6	Calgary E.	42.46
7	Red Deer	41.91
8	Calgary W.	40.82
9	MacLeod	39.50
10	Strathcona	37.30
11	Edmonton W.	36.15
12	Edmonton E.	36.15

Nº of Bush of Oats per unit of Rural Population

Rank	Constituency	Output
1	Calgary E.	545.74
2	MacLeod	389.4
3	Bow River	377.8
4	Medicine Hat	377.8
5	Battle River	377.8
6	Victoria	277.4
7	Red Deer	264.3
8	Calgary W.	215.7
9	Lethbridge	200.3
10	Strathcona	194.4
11	Edmonton W.	133.6
12	Edmonton E.	92.9

Bushels of Flax per Acre

Province	Total	Man.	Sask.	Alta.
Man.	13.24	6.29	19.83	14.31

Rank Constituencies

Rank	Constituency	Output
1	MacLeod	7.9
2	Bow River	4.40
3	Lethbridge	3.77
4	Medicine Hat	3.77
5	Victoria	3.77
6	Battle River	3.77
7	Red Deer	2.95
8	Edmonton W.	2.19
9	Edmonton E.	2.19
10	Strathcona	2.01
11	Calgary W.	1.50
12	Calgary E.	1.02

Total Bush Barley

Province	Total	Man.	Sask.	Alta.
Man.	35,394,112	16,451,445	9,822,847	9,822,847

Rank Constituencies

Rank	Constituency	Output
1	Victoria	4,490
2	Bow River	4,001
3	Battle River	2,763
4	Strathcona	2,727
5	Calgary E.	2,515
6	Bow River	2,406
7	Edmonton W.	2,084
8	MacLeod	1,821
9	Edmonton E.	1,523
10	Strathcona	1,171
11	Lethbridge	1,171
12	Edmonton E.	1,171

Bushels of Barley per Acre

Province	Total	Man.	Sask.	Alta.
Man.	30.56	29.4	31.47	31.69

Rank Constituencies

Rank	Constituency	Output
1	Bow River	36.77
2	Lethbridge	36.77
3	Medicine Hat	36.77
4	Battle River	36.77
5	Calgary E.	36.77
6	Red Deer	36.77
7	Victoria	36.77
8	Edmonton W.	36.77
9	MacLeod	36.77
10	Strathcona	36.77
11	Edmonton E.	36.77
12	Calgary W.	36.77

Nº of Bush of Barley per unit of Rural Population

Rank	Constituency	Output
1	Calgary E.	69.19
2	MacLeod	45.38
3	Bow River	43.34
4	Calgary W.	40.50
5	Victoria	37.33
6	Battle River	28.77
7	Red Deer	28.61
8	Lethbridge	27.58
9	MacLeod	26.19
10	Strathcona	23.52
11	Edmonton W.	19.48
12	Edmonton E.	13.48

Nº of Bush of Flax per unit of Rural Population

Rank	Constituency	Output
1	Medicine Hat	5.97
2	Bow River	5.97
3	Battle River	5.97
4	MacLeod	5.97
5	Victoria	5.97
6	Red Deer	5.97
7	Edmonton W.	5.97
8	Edmonton E.	5.97
9	Strathcona	5.97
10	Calgary W.	5.97
11	Calgary E.	5.97

Total Nº of Horses

Province	Total	Man.	Sask.	Alta.
Man.	174,924	30,327	54,161	89,436

Rank Constituencies

Rank	Constituency	Output
1	Bow River	2,829
2	Medicine Hat	2,829
3	Battle River	2,829
4	MacLeod	2,829
5	Battle River	2,829
6	Calgary E.	2,829
7	Edmonton W.	2,829
8	MacLeod	2,829
9	Edmonton E.	2,829
10	Strathcona	2,829
11	Lethbridge	2,829
12	Edmonton E.	2,829

Nº of Horses per unit of Rural Population

Rank	Constituency	Output
1	MacLeod	3.08
2	Bow River	3.07
3	Medicine Hat	2.71
4	Calgary W.	2.71
5	Lethbridge	2.53
6	Calgary E.	2.36
7	Red Deer	2.12
8	Battle River	1.84
9	Victoria	1.53
10	Strathcona	1.32
11	Edmonton W.	0.86
12	Edmonton E.	0.71

Total Nº of Cattle

Province	Total	Man.	Sask.
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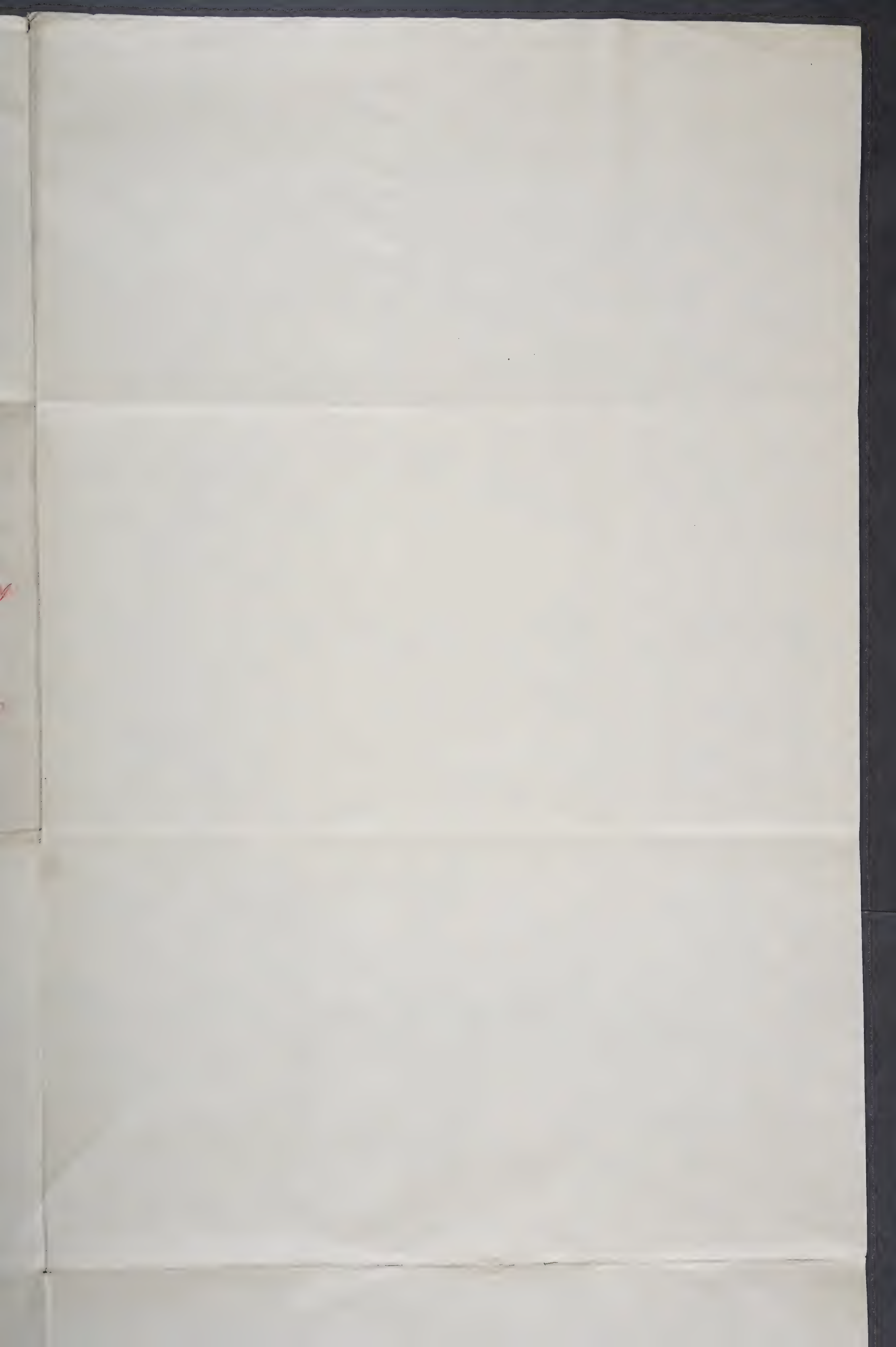
Alfred W. H. H. H.

James H. H.

Alfred W. H. H.

1818

1818



CANADIAN PACIFIC RAILWAY COMPANY

COLONIZATION AND DEVELOPMENT BRANCH

J. S. DENNIS

CHIEF COMMISSIONER

COMPILED BY W. PEARCE
Calgary 30 Jan 1918.

No 17

Census June 1916

Graph — Rural Population by Townships; Federal Constituencies.
Also showing by Federal Constituencies Annual Output, Grain, Stock, Cultivated Land, Lands open for entry etc. etc.
There are 43 Federal Constituencies in the 3 Prairie Provinces. The rank locates the subject treated for the whole of the said Provinces.

N.B. — Owing to non controllable circumstances there were some slight errors in data on graph of Alberta dated 25th June 1917. Please substitute for such, the data in this.

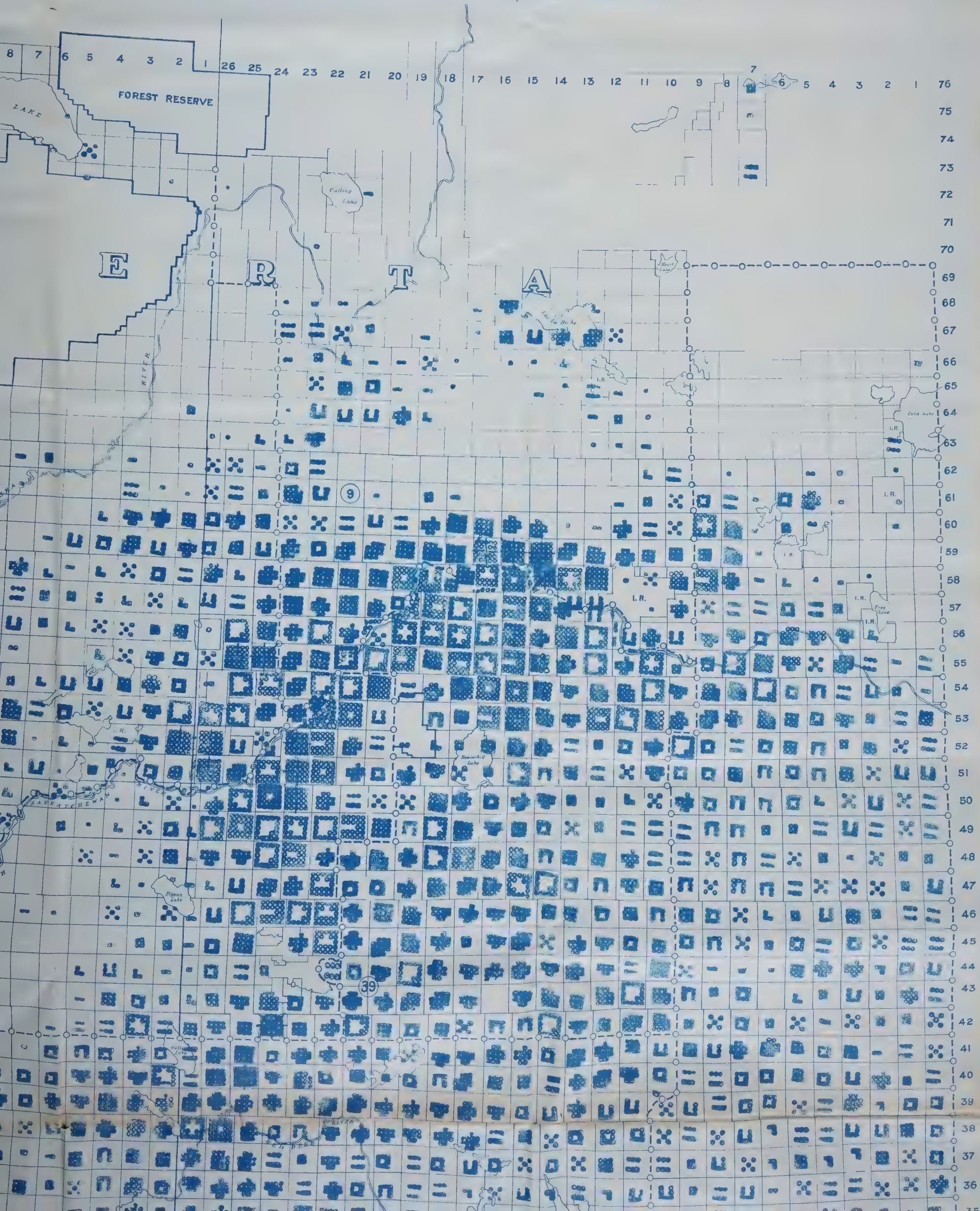




Table 1: Sheep per Farm

Scale: 1" = 10

Rank	Constituencies	Value
1	Lethbridge	37.23
2	Calgary W.	36.26
3	Calgary E.	35.74
4	Red Deer	20.15
5	Medicine Hat	19.93
6	Regina	17.47
7	Calgary W.	13.42
8	Calgary E.	10.82
9	Red Deer	8.01
10	Medicine Hat	7.87

Table 2: Sheep per Farm

Scale: 1" = 10

Rank	Constituencies	Value
1	Lethbridge	39.08
2	Calgary W.	5.69
3	Calgary E.	11.97
4	Red Deer	3.64
5	Medicine Hat	2.92
6	Regina	2.55
7	Calgary W.	2.26
8	Calgary E.	1.66
9	Red Deer	1.67
10	Medicine Hat	1.04
11	Regina	0.74

Table 3: Pigs per Farm

Scale: 1" = 10

Rank	Constituencies	Value
1	Calgary E.	18.97
2	Calgary W.	13.84
3	Calgary E.	12.48
4	Red Deer	10.97
5	Medicine Hat	10.60
6	Regina	9.63
7	Calgary W.	9.07
8	Calgary E.	7.79
9	Red Deer	6.65
10	Medicine Hat	3.81

Table 4: Pigs per Farm

Scale: 1" = 10

Rank	Constituencies	Value
1	Calgary E.	5.40
2	Calgary W.	5.77
3	Calgary E.	4.77
4	Red Deer	4.69
5	Medicine Hat	4.19
6	Regina	3.59
7	Calgary W.	3.39
8	Calgary E.	3.13
9	Red Deer	1.56

Table 5: Annual Output per Farm

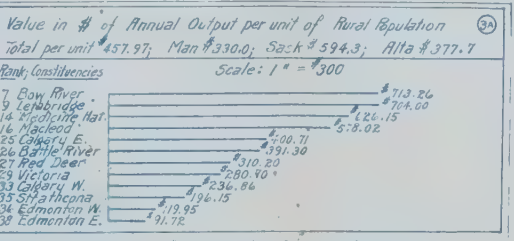
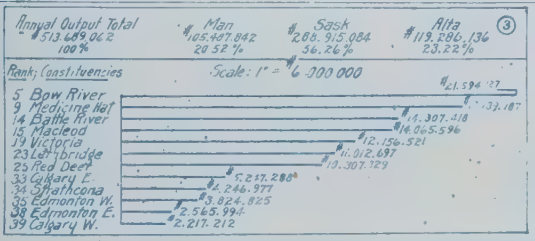
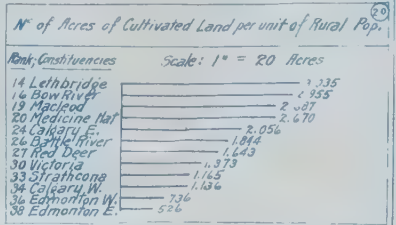
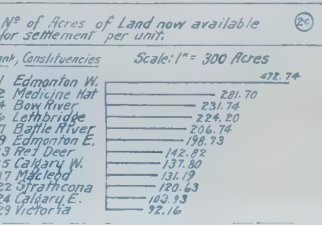
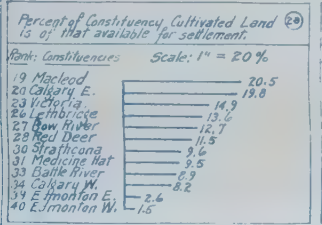
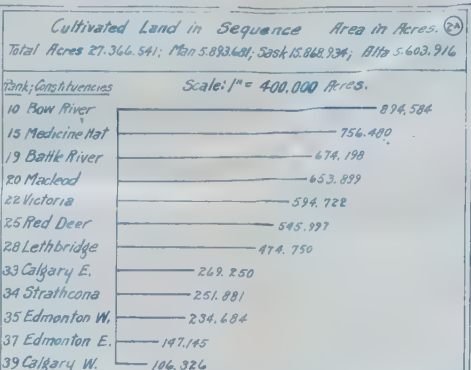
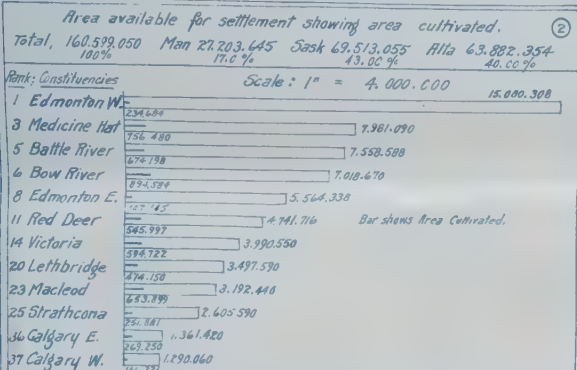
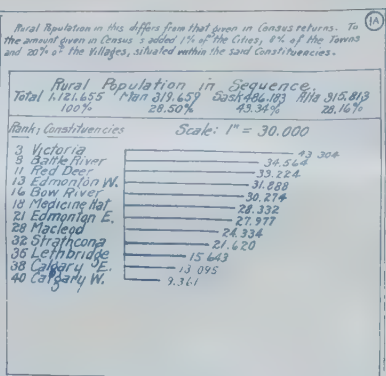
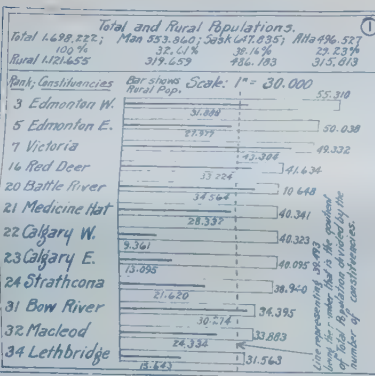
Scale: 1" = 2000

Rank	Constituencies	Value
1	Lethbridge	3,415.01
2	Calgary W.	2,921.74
3	Calgary E.	2,931.14
4	Red Deer	2,514.53
5	Medicine Hat	2,141.27
6	Regina	1,931.27
7	Calgary W.	1,421.00
8	Calgary E.	1,421.00
9	Red Deer	1,421.00
10	Medicine Hat	1,421.00

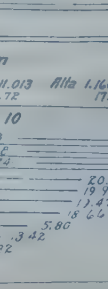
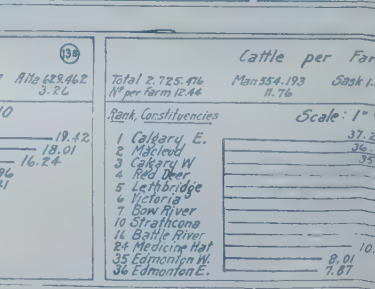
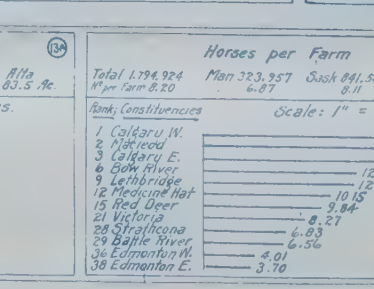
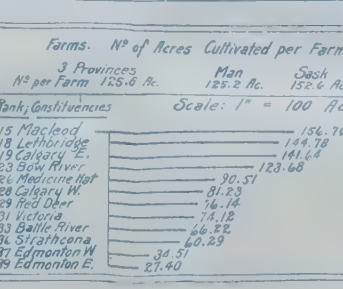
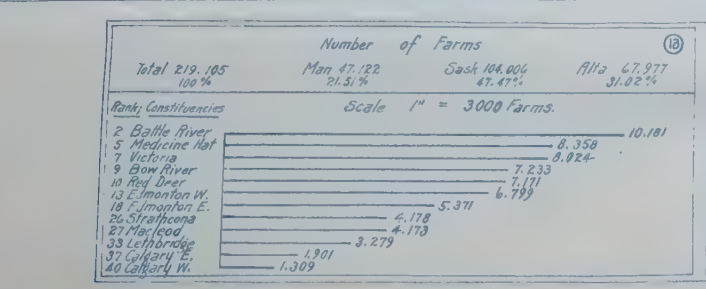
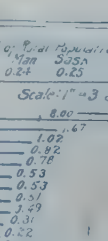
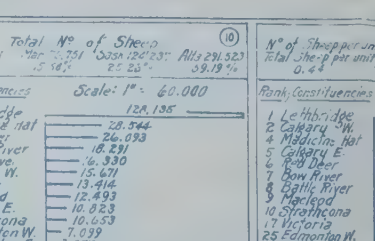
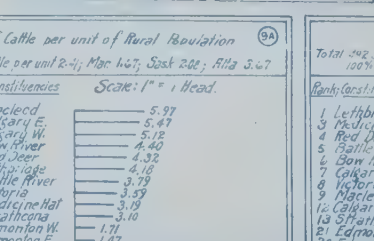
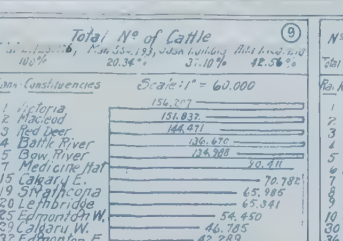
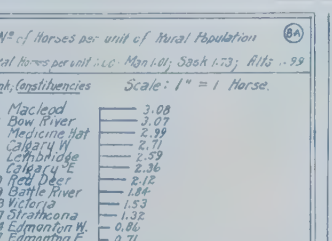
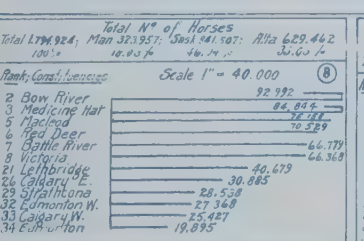
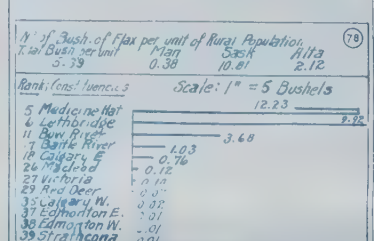
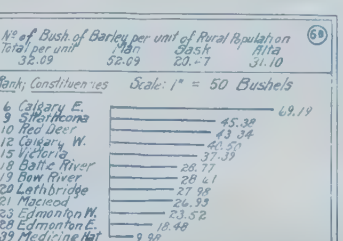
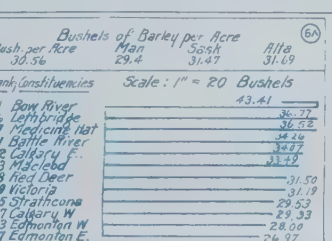
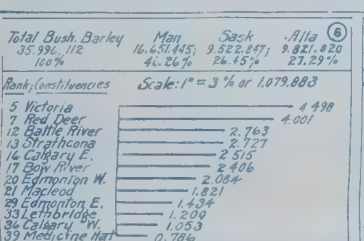
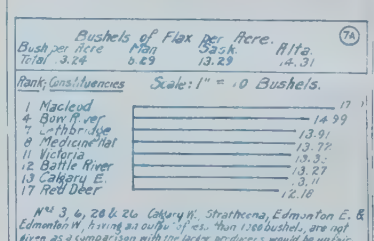
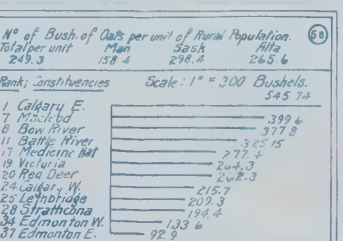
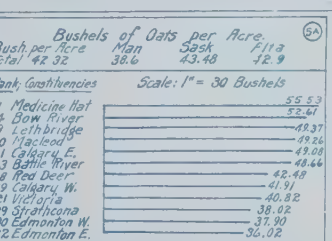
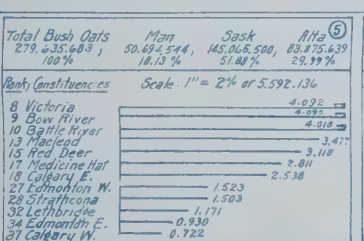
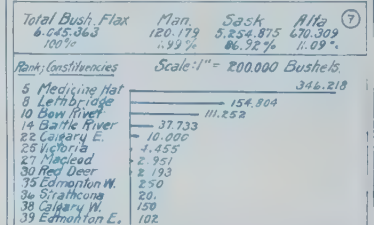
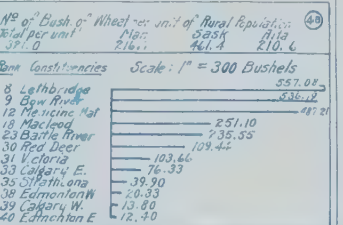
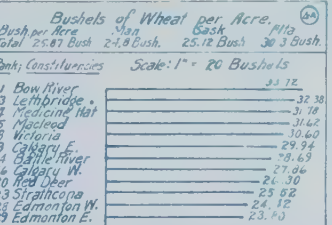
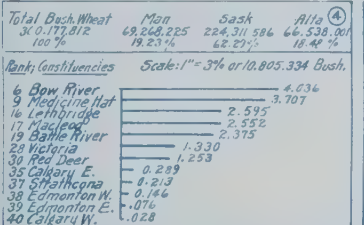
Table 6: Annual Output per Farm

Scale: 1" = 2000

Rank	Constituencies	Value
1	Lethbridge	3,415.01
2	Calgary W.	2,921.74
3	Calgary E.	2,931.14
4	Red Deer	2,514.53
5	Medicine Hat	2,141.27
6	Regina	1,931.27
7	Calgary W.	1,421.00
8	Calgary E.	1,421.00
9	Red Deer	1,421.00
10	Medicine Hat	1,421.00



Annual Output is arrived at as follows: being the sum of the N° of bushels of Wheat multiplied by \$1.25 for Man, \$2.35 for Sask and \$1.94 for Alta. Oats multiplied by \$1.33 for Man, \$2.32 for Sask and \$1.93 for Alta. Barley multiplied by \$1.54 for Man, \$2.34 for Sask and \$1.94 for Alta. The value of Grain is taken from Census Estimates for Manitoba, assuming 7.5 per bushel as extra freight charge for Sask points and 15¢ for Port William.





LRA-1974-169-2100-002-007

The attached map of Alberta and several graphs thereon.

On the map each township in which there is any Rural Population, the same is represented by dots. By adding one to the number of dots and dividing the sum by two, gives the Rural Population per square mile in said township up to 13. Above 13 see legend; The object sought to be obtained is that the map will represent clearly and readily the differences in density of population.

The three Prairie Provinces contain 43 Federal Constituencies and in each except the three for Winnipeg, there is a Rural Population. A list of these Constituencies arranged alphabetically showing in which Province it is located may be found at the upper left hand corner. In reference to production there are only 40 constituencies shown, the three for Winnipeg being for obvious reasons omitted.

The Rural Population differs from the number given in the Census as 1% of the Cities, 8% of the Towns and 20% of the Villages have been assumed as engaged in rural operations and therefore have been added to the number given by the Census in the Constituencies where the same are situated.

As to Total Output, see note to special graph No. 3.

SPECIAL GRAPHS

There are also 13 special graphs, numbered 1 to 13.

No. 1.- 2 Sections. 1. Shows Total Population in order of numbers, and thereon by solid bar the Rural Population. 1A. Shows Rural Population in sequence of numbers.

No. 2.- 5 Sections. 2. Showing the area in acres of the lands now available for settlement. 2A. Area of cultivated land in sequence. 2B. Percentage of constituency that cultivated land is of that available for settlement. 2C. Number of acres available for settlement per unit of Rural Population. 2D. Acres of cultivated land per unit of Rural Population.

No. 3.- 2 Sections. 3. Total Annual Output. 3A. Annual Output per unit of Rural Population. (See note representing Annual Output.)

No. 4.- 3 Sections. 4. Total bushels of wheat. 4A. Bushels of wheat per acre. 4B. Bushels of wheat per unit of Rural Population.

No. 5.- 3 Sections. 5. Total bushels of oats. 5A. Bushels of oats per acre. 5B. Bushels of oats per unit of Rural Population.

No. 6.- 3 Sections. 6. Total bushels of barley. 6A. Bushels of barley per acre. 6B. Bushels of barley per unit of Rural Population.

No. 7.- 3 Sections. 7. Total bushels of flax. 7A. Bushels of flax per acre. 7B. Bushels of flax per unit of Rural Population.

No. 8.- 2 Sections. 8. Total number of horses. 8A. Number of horses per unit of Rural Population.

No. 9.- 2 Sections. 9. Total number of cattle. 9A. Number of cattle per unit of Rural Population.

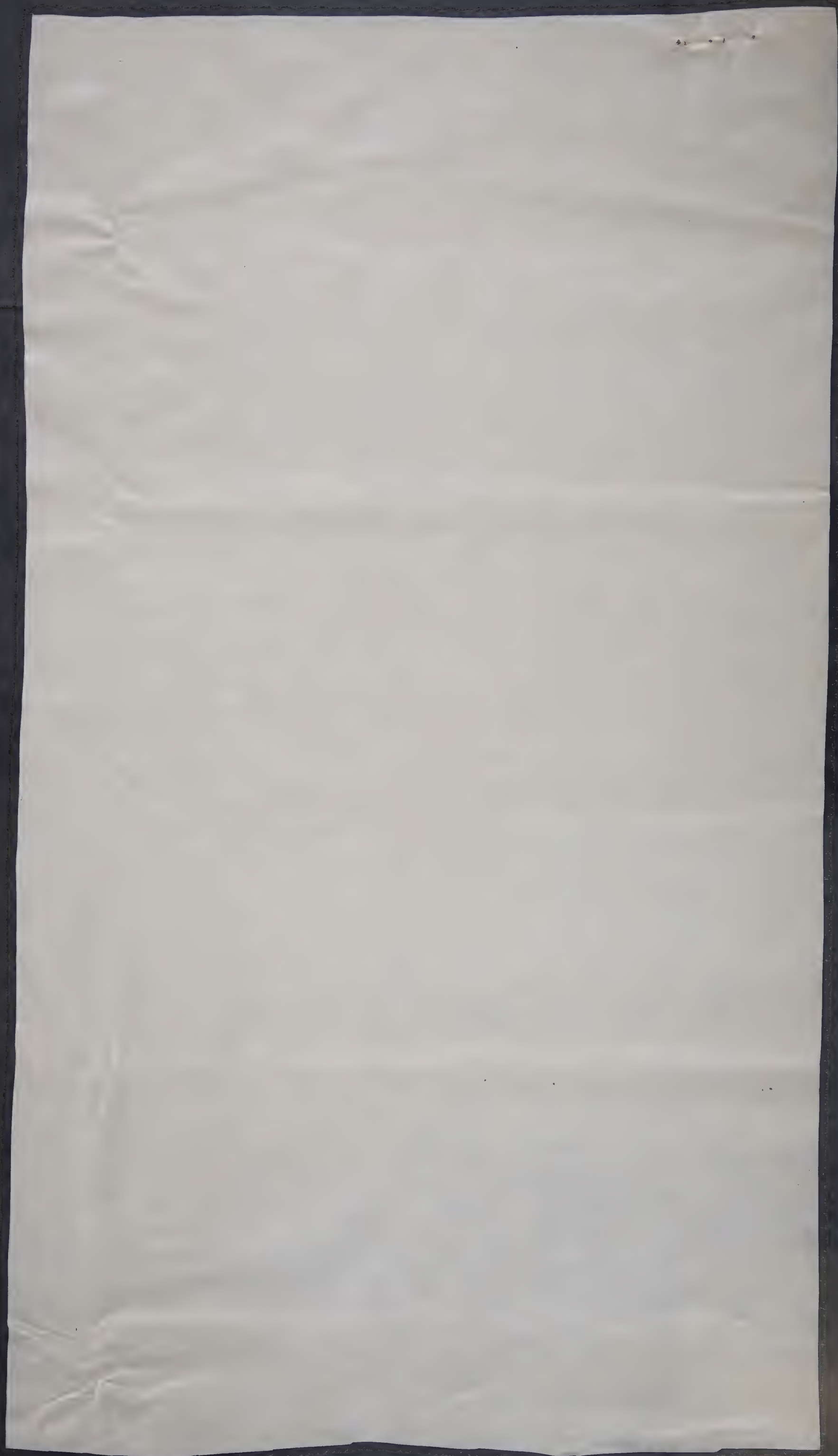
No. 10.- 2 Sections. 10. Total number of sheep. 10A. Number of sheep per unit of Rural Population.

No. 11.- 2 Sections. 11. Total number of pigs. 11A. Number of pigs per unit of Rural Population.

No. 12.- 3 Sections. 12. Total railway mileage in sequence. 12A. Rural Population per mile of railway. 12B. Annual output per mile of railway.

No. 13.- 8 Sections. 13. Number of farms. 13A. Number of acres per farm. 13B. Number of horses per farm. 13C. Number of cattle per farm. 13D. Number of sheep per farm. 13E. Number of pigs per farm. 13F. Number of Rural Population per farm. 13G. Annual Output per farm.

Calgary, Alberta. 30th January, 1918.



COAL STATISTICS 1917

CANADIAN PACIFIC RAILWAY COMPANY

COLONIZATION AND DEVELOPMENT BRANCH

MAP OF SASKATCHEWAN AND ALBERTA

J. S. DENNIS
CHIEF COMMISSIONER

SCALE 35 MILES TO 1 INCH

COMPILED BY W. PEARCE
Calgary 19th AUG 1918

LEGEND
1 Circle for each 1% then 229.57
for the largest the Crows Nest Pass
Coal Field 127.1 for the Drumheller
Field and 119.2 for Lethbridge.

For .09 = 0
.08 = 0
.07 = 0
.06 = 0
.05 = 0
.04 = 0
.03 = 0
.02 = 0
.01 = 0

32 Coal Mining Districts

10

ANNUAL INCREASE IN TONNAGE. 2000 lbs. = 1 Ton

DOMESTIC COAL PRODUCED									
YEAR	SASKS.	% OVER 1910	ALTA.	% OVER 1910	ALTA. SASKS. COMBINED	% OVER 1910	ANTHRACITE	% OVER 1910	ALL COALS DOMESTIC
1910	151,929	0	2,635,905	0	2,787,834	0	361,215	0	5,066,318
1911	151,929	0	1,470,881	-44.26	1,622,810	-41.80	538,498	49.08	6,117,352
1912	151,929	0	2,991,431	13.50	3,143,360	12.54	536,762	48.60	6,697,331
1913	224,570	47.8	3,137,908	41.80	3,962,178	42.14	635,621	89.81	8,126,200
1914	224,570	47.8	3,317,269	25.80	3,541,839	26.98	549,570	50.48	8,111,921
1915	206,637	36.0	3,086,563	17.10	3,293,250	18.12	356,007	-1.44	7,648,670
1916	270,000	77.7	4,244,075	61.01	4,514,975	61.92	589,913	61.66	8,179,915
1917	334,566	120.2	4,811,111	24.0	5,197,977	36.46	566,412	56.85	9,179,915

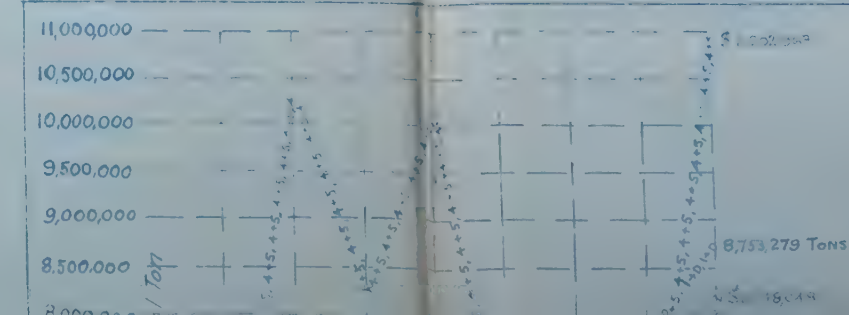
ALBERTA AND SASKATCHEWAN COAL OUTPUT 1917

with Authority given from the Analyses of Mines

8

Nº	DISTRICT	OUTPUT IN TONS 2000 LBS.	PERCENTAGE TOTAL OUTPUT IN THE TWO PROVINCES	M	V	F	A	BTU	X	
LIGNITE										
1	Fincher Creek	6,804	0.1309	3.8	28.96	38.67	28.57	3,810	1.2	C
2	Leinbridge	619,850	11.9243	7.3	31.24	41.15	11.33	11,887	1.3	C
3	Mapleth	1,011	0.0194	3.91	38.01	46.75	11.33	11,887	1.3	E
4	Milk River	9,140	0.1758							
5	Taber	175,666	3.3794	11.7	31.79	44.06	12.45	11,040	1.3	C
6	Bow Island	6,846	0.1321	17.26	30.90	46.57	5.57	9,259		E
7	Medicine Hat	14,346	0.2355	26.22	33.10	41.36	7.2	8,635		E
8	Aldersyde -1	7,333	0.1412	10.9	30.55	51.25	7.3	3,807		G
	" -2			9.85	33.45	50.43	6.27	10,411		G
9	High River	1,096	0.0211	2.33	35.27	56.53	5.87			E
10	Drumheller	660,974	12.7153	16.5	33.6	43.4	6.5	9,650		D
11	Big Valley -1	29,897	0.5751	12.07	30.02	44.33	8.38			G
	" -2			15.05	28.94	42.30	13.75			G
12	Brooks	8,283	0.1593	11.43	34.74	45.03	8.80	9,956		E
13	Hanna	26,064	0.5013							
14	Lacombe -1	18,223	0.3505	14.70	31.17	42.03	12.10	8,714		G
	" -2			14.8	30.35	47.9	6.95	9,972		G
15	Trochu	14,131	0.2718	12.2	32.1	49.30	6.40	10,002		G
16	Three Hills	24,874	0.4785	11.70	30.75	51.35	6.2	10,457		G
17	Carbon	4,615	0.0888	11.57	35.64	45.21	7.79			E
18	Battle River -1	10,544	0.2028	13.0	33.75	46.59	6.66	9,744		G
	" -2			17.0	31.10	41.40	10.50	8,794		G
19	Camrose -1	61,293	1.1789	18.30	31.35	44.75	5.1	9,250		G
	" -2			15.3	30.58	45.52	7.6	9,472		G
20	Tofield	71,510	1.3757	25.0	29.8	36.7	8.5	7,990		L
21	Clover Bar	263,857	5.0743							
22	Edmonton	120,519	2.3180	18.97	32.61	40.18	8.25	11,000	3.93	C
23	Namoo	19,406	0.3732							
24	Cardiff	257,459	4.9531	20.0	31.6	40.4	8.0	8,770		C
25	Wabamun	19,007	0.3656	16.4	31.52	45.18	6.9	9,234		C
26	Fernina	84,343	1.6227	12.18	27.6	43.9	10.3	not given		L
27	Peace River	223	0.0042	2.17	30.8	43.8	8.4	9,640		L
BITUMINOUS										
28	Crows Nest Pass	1,193,313	22.9570	4.77	26.10	58.41	16.62	12,410	0.8	C
29	Canmore	196,233	3.7751	1.02	13.41	82.02	3.62			
30	Brazeau -1	266,891	5.1347	0.44	17.01	69.12	13.43	13,204		C
	" -2			0.63	17.97	66.00	15.40	12,834		
	" -3			0.45	17.63	69.92	12.00	13,426		
31	Jasper Park	250,079	4.8001	2.30	18.50	57.80	21.40	11,580		
32	Yellowhead Pass -1	146,943	2.8270	5.80	35.2	48.00	10.90	10,930		
	" -2			9.20	29.7	53.40	7.50	11,280		
33	Mountain Park	153,397	2.9511	3.20	30.50	62.00	4.30	14,210		
ANTHRACITE										
34	Banff	118,717	2.2855	0.6	13.70			10,640		
SASKATCHEWAN LIGNITE										
1	Nº1	2,974	0.0672	20.29	31.41	51.71	6.82			
2	" 2	265,886	5.1167	18.70	30.55	44.33	8.38			
3		60,668	1.1662	18.2	30.55	44.33	8.38			
4		5,036	0.0965	13.71	30.55	44.33	8.38			

C = McGill University, Investigation by Porter, Durley, & Others, Nº83 Vol.
D = Mines Branch, Nº331-1915
E = Memoir. 53, Nº44, Geo. Surv. D. B. Dowling 1914.
G = Various Sources believed by Compiler as fairly reliable.
M = Moisture A = Ash
V = Volatile Combustible BTU = British Thermal Units.
F = Fixed Carbon X = Loss in Air Drying



COAL
FOR PORT
PORT ARTI
LIMIT
Scale -

ALBERTA AND SASKATCHEWAN COAL OUTPUT 1917

with Authority given from the Analyses of Mines

Nº	DISTRICT	OUTPUT IN TONS 2000 LBS	PERCENTAGE OF TOTAL OUTPUT FOR THE TWO PROVINCES	M	V	F	A	BTU	X	AUTHORITY
LIGNITE										
1	Pincher Creek	6,804	0.1309	3.8	28.96	38.67	28.57	9,810	1.2	C
2	Lethbridge	619,850	11.9243	7.9	34.54	47.43	10.13	11,710	0.5	C
3	Maple	1,071	0.0194	3.91	38.01	46.75	11.33	11,887		E
4	Milk River	9,140	0.1758							
5	Taber	175,666	3.3794	11.7	31.79	44.06	12.45	11,040	1.3	C
6	Bow Island	6,846	0.1321	17.26	30.90	46.27	5.57	9,259		E
7	Medicine Hat	14,844	0.2855	20.22	33.30	41.36	5.12	11,000		E
8	Aldersyde - 1	7,331	0.1412	10.9	30.55	51.25	7.3	9,807		G
9	" - 2			9.85	33.45	50.43	6.27	10,411		G
10	High River	1,094	0.0211	2.33	35.27	56.53	5.87			E
11	Drumheller	660,971	12.7153	16.5	33.6	43.4	6.5	9,650		D
12	Big Valley - 1	29,895	0.5751	12.07	30.02	44.33	8.58			G
13	" - 2			15.05	28.94	42.30	13.75			G
14	Brooks	8,285	0.1593	11.43	34.74	45.03	8.80	9,956		E
15	Hanna	26,064	0.5013							
16	Lacombe - 1	18,223	0.3505	14.70	31.17	42.03	12.10	8,714		G
17	" - 2			14.8	30.35	47.9	6.95	9,372		G
18	Trochu	14,131	0.2718	12.2	32.1	49.30	6.40	10,002		G
19	Three Hills	24,871	0.4785	11.70	30.75	51.35	5.2	10,457		G
20	Carbon	4,615	0.0888	11.57	35.64	45.21	7.79			E
21	Battle River - 1	10,544	0.2028	13.0	33.75	46.59	6.66	9,744		G
22	" - 2			17.0	31.10	41.40	10.50	8,794		G
23	Camrose - 1	61,295	1.1789	18.30	31.35	44.75	5.1	9,250		G
24	" - 2			15.3	30.58	45.52	7.6	9,472		G
25	Tofield	71,516	1.3757	25.0	29.8	36.7	8.5	7,990		D
26	Clover Bar	263,857	5.0745							
27	Edmonton	120,519	2.3180	18.97	32.61	40.18	8.25	11,000	3.93	C
28	Namoo	19,406	0.3732							
29	Cardiff	257,455	4.9531	20.0	31.6	40.4	8.0	8,770		D
30	Wabamun	19,005	0.3656	16.4	31.52	45.18	6.9	9,123		G
31	Pembina	84,345	1.6227	11.18	27.6	43.9	10.3	not given		D
32	Peace River	225	0.0042	2.17	30.8	43.8	8.4	9,640		D
BITUMINOUS										
33	Crows Nest Pass	1,193,313	22.9570	4.77	26.10	58.41	16.62	12,410	0.8	C
34	Canmore	196,233	3.7751	1.02	13.41	82.02	3.62			E
35	Brazeau - 1	266,897	5.1347	0.44	17.01	69.12	13.43	13,204		G
36	" - 2			0.63	17.97	66.00	15.40	12,834		G
37	" - 3			0.45	17.63	68.92	12.00	13,426		G
38	Jasper Park	250,079	4.8001	2.30	18.50	57.80	21.40	11,580		G
39	Yellowhead Pass - 1	146,943	2.8270	5.90	35.2	48.00	10.30	10,330		G
40	" - 2			3.20	29.7	53.40	7.50	11,280		G
41	Mountain Park	153,397	2.9511	3.20	30.50	62.00	4.30	14,210		G
ANTHRACITE										
42	Banff	118,717	2.2855	0.6	13.75	72.10	13.35	13,640	0.5	C
SASKATCHEWAN										
LIGNITE										
1	Nº1	2,976	0.0872	2.00	14.4	31.1	4.95			E
2	"	265,886	5.1167	2.00	14.4	31.1	4.95			E
3	"	60,666	1.1662	2.00	14.4	31.1	4.95			C
4	"	5,036	0.0965	2.00	14.4	31.1	4.95			E

C = McGill University, Investigation by Porter, Durley, & Others, N°83 Vol.13
D = Mines Branch, N°331-1915
E = Memoir 53, 1244 Geo. Surv. D. B. Dowling 1914
G = Various Sources believed by Compiler as fairly reliable
M = Moisture A = Ash
V = Volatile Combustible BTU = British Thermal Units
F = Fixed Carbon X = Loss in Air Drying

IMPORTED COALS

Authority - Customs Returns. These Returns are for year ending 31st March. In schedule the returns for 31st March 1911 is given for Calendar year 1910 and so on, so as to correspond with the Domestic Coal Returns.

COAL STATISTICS 1917

IMPORTED COALS

ANTHRACITE				BITUMINOUS			
YEAR ENDING 31st MARCH	TONS	VALUE	COST PER TON	TONS	VALUE	COST PER TON	
1910	222,513	\$1,601,226	\$4.692	1,712,354	\$3,644,037	\$2.121	
1911	222,513	2,282,962	4.417	2,552,377	8,013,848	2.266	
1912	222,513	2,282,962	4.417	2,552,377	8,013,848	2.266	
1913	222,513	2,282,962	4.417	2,552,377	8,013,848	2.266	
1914	222,513	2,282,962	4.417	2,552,377	8,013,848	2.266	
1915	222,513	2,282,962	4.417	2,552,377	8,013,848	2.266	
1916	222,513	2,282,962	4.417	2,552,377	8,013,848	2.266	
1917	222,513	2,282,962	4.417	2,552,377	8,013,848	2.266	

It is presumed that the foregoing tonnage is a ton of 2240 lbs. For the purposes of comparison with the tonnage from local producing mines, 12% has to be added thereto and for comparison of prices based on 2000 lbs. per ton divide the above prices by 1.12

TONNAGE & VALUES OF THE FOREGOING			
YEAR ENDING 31st MARCH	TOTAL TONNAGE	TOTAL VALUE	
1910	2,034,867	\$5,245,26	
1911	4,033,180	10,406,81	
1912	3,173,197	8,177,875	
1913	3,753,323	10,193,4	
1914	2,294,717	6,344,329	
1915	2,370,911	4,088,388	
1916	2,834,771	6,067,300	
1917	3,555,902	11,202,963	

Anthracite Tonnage of 1917-18 = 97%. Total Cost 10.45% Cost per ton 113.6% of the preceding year
Bituminous " " = 131.8% " 259.1% " 196.6% "

ANALYSIS OF THE FOREGOING

ANTHRACITE			
	M	V	F
Lot. Pp. 110	3.30	3.80	84.00
Lehigh, 5 Samples, Pp. 112 & 113	1.65	3.93	81.76
BITUMINOUS			
MARYLAND			
Georges Creek, 3 Samples	1.07	1.89	12.92
OHIO			
1st bottom of Pp. 109	6.28	36.38	49.41
Georges Run Pp. 110	2.86	35.84	52.35
PENNSYLVANIA			
Ellsworth, 3 Samples, Pp. 111	1.58	35.80	56.83
WEST VIRGINIA			
3 Samples, Pp. 119			
2 Samples, Pp. 119			
1 Sample, Pp. 119			

Authority. Memoir 53, N°44 Geo. Surv. D. B. Dowling

TOTAL TONNAGE AVAILABLE FOR PUBLIC CONSUMPTION

Adding 12% to Imported tonnage of 2240 lbs. per ton to represent the number of tons of 2000 lbs.

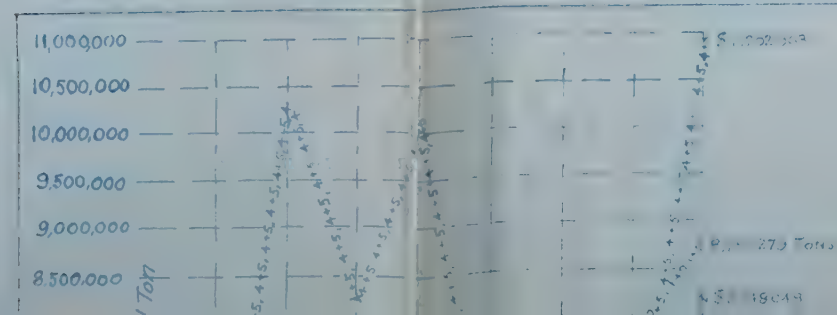
Imported Coals	2,222,513	2,488,204	2,655,420	2,834,771	3,014,943	3,200,000	3,390,998	3,582,998	3,779,998
Saskatchewan									
Alberta									
Total	2,222,513	2,488,204	2,655,420	2,834,771	3,014,943	3,200,000	3,390,998	3,582,998	3,779,998

TOTAL OF THE 8 YEARS			
Imported Coals	2,222,513	2,488,204	2,655,420
Saskatchewan			
Alberta			
Total	2,222,513	2,488,204	2,655,420

7 Increase in tonnage of output in 1917 over 1916, Saskatchewan

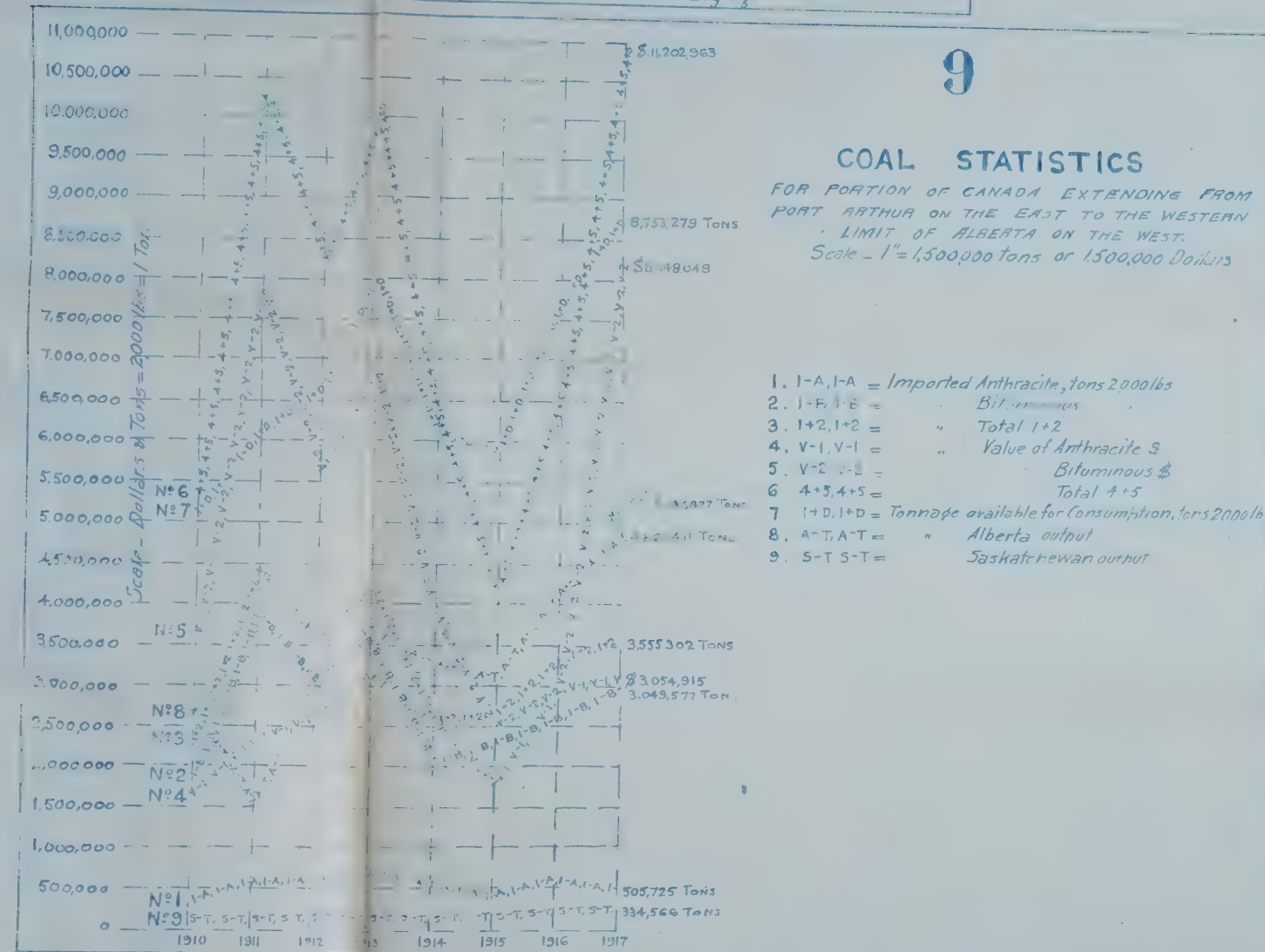
COAL STATISTICS

FOR PORTION OF CANADA EXTENDING FROM PORT ARTHUR ON THE EAST TO THE WESTERN LIMIT OF ALBERTA ON THE WEST.
Scale - 1" = 1,500,000 tons or 1,500,000 Dollars



33	Mountain Park	53.397	2.951	2.0	3.0	62.00	7.50	11.280		G
	ANTHRACITE									G
34	Banff	118.717	2.285	2.0	3.0	13.35	13.640	0.5		C
	SASKATCHEWAN									
	LIGNITE									
1	N°1	2.876	0.0672	2.0	3.0	51.35	16.95			E
2		265.886	5.1167	2.0	3.0	38.64	4.40			E
3		60.668	1.1662	2.0	3.0	30.83	5.78	10.690	10.60	C
4		5.038	0.0965	2.0	3.0	38.31	3.834	8.22	12.7	E

C = McGill University, Investigation by Porter, Durley, & Others, N°83 Vol.13
D = Mines Branch, N°331, 1915
E = Memoir 53, 1944, Geo. Surv. D.B. Dowling 1914
G = Various Sources believed by Compiler as fairly reliable
M = Moisture
V = Volatile Comustible
F = Fixed Carbon
A = Ash
BTU = British Thermal Units
X = Loss in Air Drying



BITUMINOUS									
MARYLAND									
Georges Creek, 3 Samples									
17.107	1.09	12.92	79.45	5.49	13.56	not given			
bottom of Pp. 109	6.28	36.38	48.41	8.93	1.248	3.55			
7on Pp. 110	2.86	35.84	52.35	8.95	not given	3.80			
PENNSYLVANIA									
Emswiler 15 Samples, Pp. 111									
1.58	35.80	56.83	5.79	14.013	1.00				
WEST VIRGINIA									
1 Sample, Pp. 119									
2.78	27.53	60.77	8.88	13.793	1.87				
2 Samples, Pp. 119									
1.77	38.93	51.32	8.22	13.835	0.70				
3 Samples, Pp. 119									
4.42	30.07	61.94	3.53	14.273	2.85				

TOTAL TONNAGE AVAILABLE FOR PUBLIC CONSUMPTION
Adding 12% to Imported tonnage of 2240lbs. per ton to represent the number of tons of 2000lbs.

6									
Imported Coals	2,279,000								
Saskatchewan									
Alberta									
Total Coals	2,279,000								

7									
1916	2,570,000	42.051	2,655,420	42.639	3,174,943	41.291	3,981,938	43.370	26,319,899
1917	2,245,700	3.678	2,250,000	3.678	2,245,700	3.678	2,245,700	3.678	2,245,700
Total Coals	4,815,700	100.000	4,905,420	100.000	5,420,643	100.000	6,227,638	100.000	28,565,599

increase in tonnage of output in 1917 over 1916, Saskatchewan 23.80 %
Alberta 14.57 %
All & Sask. 15.15 %
Lignite, Sask. 23.80 %
" Alberta 32.50 %
Bituminous " 0.81 %
Anthracite " 14.98 %

2				
COALS, ALBERTA & SASKATCHEWAN 1917				
LIGNITE		1	2	3
Alberta	2,537,826	48.8233	88.3525	52.1820
Saskatchewan	334,566	6.4365	11.6475	100.000
Two Provinces	2,872,392	55.2598	100.0000	100.000
BITUMINOUS				
Alberta	2,206,868	42.4563	100.000	45.3770
Saskatchewan	0	0	0	0
Two Provinces	2,206,868	42.4563	100.000	100.000
ANTHRACITE				
Alberta	118.717	2.2839	100.000	2.4410
Saskatchewan	0	0	0	0
Two Provinces	118.717	2.2839	100.000	100.000
TOTAL				
All Coals Alberta	4,863,411	93.5635		
" Saskatchewan	334,566	6.4365		
" Two Provinces	5,197,977	100.0000		

1. The City
2. The City
3. The City
4. The City

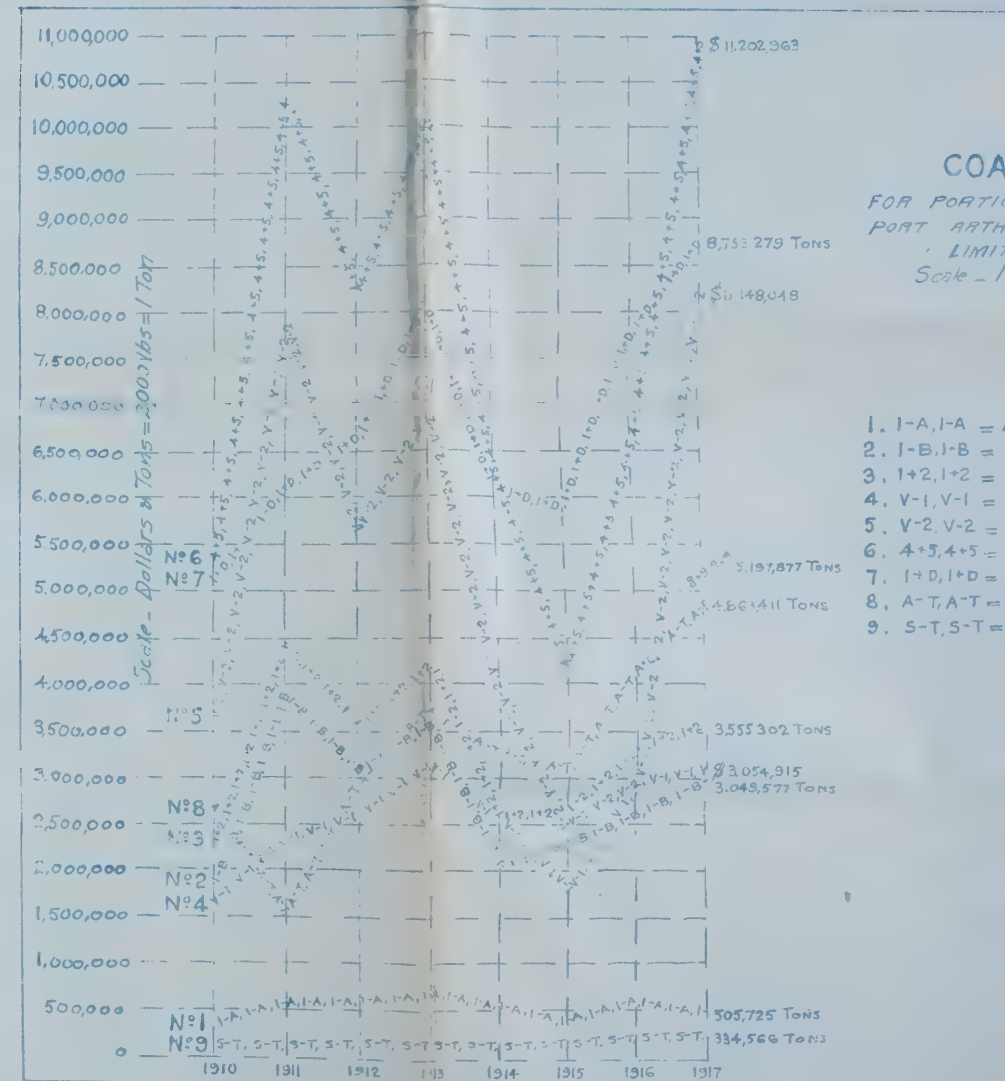


INDEX TO GRAPH_Nº34

- 1- General Map showing Coal Mining Areas of Alberta and Saskatchewan, see legend
- 2- Output and quality in each Province for 1917.
- 3- Imports Anthracite & Bituminous - Tonnage and value of each. Authority, Customs Returns to 31st March 1910-18.
- 4- Combined Tonnage of Imported Anthracite and Bituminous, giving the % Anthracite is in both tonnage and value of the whole. Increase 1917 over 1916
- 5- Analysis of Imported Coals
- 6- Total Tonnage, Domestic and Imported. % each is of the whole 1910-17.
- 7- Increase of Domestic Coal production over 1916
- 8- Output of Coals for 1917 as per the Report of the Chief Inspector of Mines for each Province. Also Analysis, giving Authority for same
- 9- Graph, showing imported Coals, Tonnage and Values. Also Domestic output tonnage 1910-17
- 10- Annual increase in production. Importation and Consumption 1910-17.

33	Mountain Park	153.397	2.9511	920	29.1	53.90	7.30	11280
	<u>ANTHRACITE</u>			320	30.50	62.00	4.30	14,210
34	Banff	118.717	2.2855	06	13.75	72.30	13.35	13.640
	<u>SASKATCHEWAN</u>							
	<u>LIGNITE</u>							
1	N ^o 1	2.976	0.0572	2029	31.41	31.35	16.95	
	" 2			21.84	35.42	38.64	4.40	
2		265.886	5.1167	18.00	34.38	30.63	5.78	10.690
3		60.668	1.1562	18.2	34.38	30.63	5.78	10.690
4		5.036	0.0965	13.73	38.91	38.54	8.22	

C = McGill University, Investigation by Porter, Darley, & Others, No 83 Vol
D = Mines Branch, No 331 - 1915
E = Memoir, 53, N° 14, Geo. Surv. D.B. Dowling 1914.
G = Various sources believed by Compiler as fairly reliable
M = Moisture A = Ash
V = Volatile Combustible BTU = British Thermal Units
F = Fixed Carbon X = Loss in Air Drying



185-36
Great Britain 1917

Good Luck

Leaf 10

1934
Good

UAF-1574-169-2100-002-011

Ms. 26
Book Room 1917
Good luck

MUNICIPALITIES-NUMERICAL

ALBERTA PROVINCIAL CONSTITUENCIES NUMBER OF AUTOMOBILE LICENCES IN EACH TOTAL NUMBER OF LICENCES 20347

1. Medicine Hat
2. Calgary South
3. Little Bow
4. Blain
5. Taber
6. Calgary Central
7. Rocky Mountain
8. Calgary North
9. Lethbridge
10. Acadia
11. Hardisty
12. East Edmonton
13. West Edmonton
14. Camrose
15. Warner
16. High River
17. Stettler
18. Claresholm
19. Ribstone
20. South Edmonton
21. Redcliff
22. Sedgewick
23. Olds
24. Victoria
25. Macleod
26. Carleton Place
27. Lacombe
28. Cardston
29. Wainwright
30. Okotoks
31. Vegreville
32. Bow Valley
33. Ponoka
34. Innisfail
35. Pincher Creek
36. Wetaskiwin
37. St. Albert
38. Cochrane
39. Red Deer
40. Nanton
41. Vermillion
42. Leduc
43. Sturgeon
44. Alexandria
45. Stony Plain
46. Whitford
47. Pembina
48. Peace River
49. St. Paul
50. Beaver River
51. Edson
52. Clearwater
53. Grimshaw
54. Athabasca

GRAPH - No. 1
Scale - 1 Inch = 200



AUTOMOBILE LICENSES ISSUED FOR WHICH THERE WERE GIVEN ALBERTA POST OFFICE ADDRESSES, TOTALLING 20347. NUMBER OF POST OFFICE ADDRESSES NOT IN ALBERTA 15%. Authority - List furnished by Calgary Automobile Club.

GRAPH - No. 2
Scale - 1 Inch = 20

- South of Township 39
South of Red Deer River
South of Township 25
South of Bow R. including Calgary D^e excluding D^e
North of Township 38
North of Tp. 38 & S. of N. Saskatchewan R.
Between Bow & Red Deer Rivers
Calgary
N. of N. Saskatchewan R. including Edmonton
S. of Tp. 39 & N. of Red Deer River
Edmonton
N. of N. Sasks. R. excluding Edmonton

There are 56 Provincial Constituencies in Alberta. The numbers on map are in their northern

NOTE - L.I.D. Refers to
Local Improvement
District

MUNICIPALITIES- ALPHABETICAL

- 341 Vermillion Valley 125
342 Vimy L.I.D. 125
343 Water L.I.D. 125
344 Warner 125
345 Wainwright 125

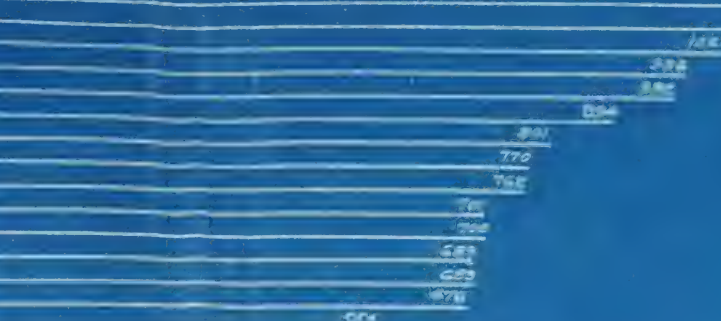




- 1. Medicine Hat
- 19. Calgary South
- 17. Little Bow
- 17. Glenora
- 3. Taber
- 18. Calgary Central
- 21. Rocky Mountain
- 18. Calgary North
- 4. Lethbridge
- 4. Airdrie
- 16. Head Hills
- 15. East Edmonton
- 15. West Edmonton
- 32. Camrose
- 3. Warner
- 10. High River
- 27. Stettin
- 8. Claresholm
- 29. Airdrie
- 36. South Edmonton
- 14. Redcliff
- 31. Sedgewick
- 22. Didsbury
- 5. Macleod
- 13. Victoria
- 28. Coronation
- 23. Olds
- 26. Lacombe
- 6. Carleton
- 30. Wainwright
- 11. Okotoks
- 37. Vegreville
- 13. Bow Valley
- 35. Pincher
- 24. Innisfail
- 7. Pincher Creek
- 34. Wetaskiwin
- 46. St. Albert
- 20. Cochrane
- 25. Red Deer
- 9. Wainwright
- 38. Vermillion
- 35. Leduc
- 44. Sturgeon
- 39. Alexander
- 43. Stony Plain
- 42. Whitford
- 47. Pembina
- 52. Peace River
- 40. St. Paul
- 41. Beaver River
- 48. Lac Ste. Anne
- 50. Edson
- 51. Clearwater
- 53. Grouard
- 54. Athabasca

ALBERTA PROVINCIAL CONSTITUENCIES

NUMBER OF AUTOMOBILE LICENCES IN EACH
TOTAL NUMBER OF LICENCES 20947



GRAPH - N°1
Scale - 1 inch = 200



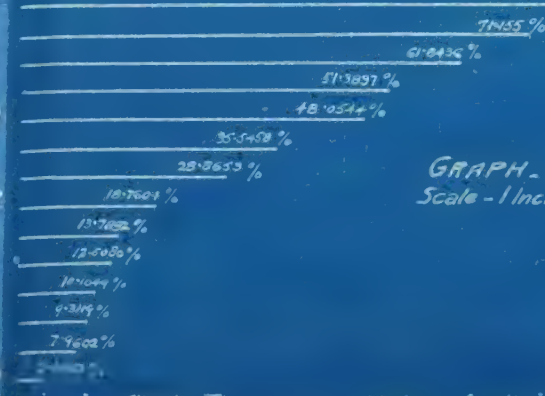
City of Calgary. 12,500%



City of Edmonton 7,962%

AUTOMOBILE LICENSES ISSUED FOR WHICH THERE WERE GIVEN ALBERTA POST OFFICE ADDRESSES, TOTALLING 20947.
NUMBER OF POST OFFICE ADDRESSES NOT IN ALBERTA 156.
Authority - List furnished by Calgary Automobile Club.

- South of Township 39
- South of Red Deer River
- South of Township 25
- South of Bow R. including Calgary
- North of Township 38
- North of Tp 38 & S. of N. Saskatchewan R.
- Between Bow & Red Deer Rivers
- Calgary
- N. of N. Sasks R. including Edmonton
- S. of Tp 39 & N. of Red Deer River
- Edmonton
- N. of N. Sasks R. excluding Edmonton



GRAPH - N°2
Scale - 1 inch = 20

ALBERTA AUTOMOBILE LICENSES 1917

Showing Per Centage of whole Province in each Municipality

CANADIAN PACIFIC RAILWAY COMPANY

COLONIZATION AND DEVELOPMENT BRANCH

J.S.DENNIS
CHIEF COMMISSIONER

MAP OF

ALBERTA

Compiled by W. PEARCE
Calgary - 15th Ave 1918

Showing the number of Automobile Licenses in each of the said units issued during 1917. Graph N°1. Showing the number in each Provincial Constituency. Graph N°2 shows an analysis of the number issued, distributed in several areas. Graph N°3 shows the various Post Offices to which there were upwards of 30 Licenses sent.
Authority - List furnished by the Calgary Automobile Club.



Showing as units, each Municipality, Local Improvement Districts and areas which will eventually become Local Improvement Districts and afterwards Municipalities.
Drawn to Scale.

LEGEND

- Municipalities or Local Improvement Districts where organized.
- Where unorganized will be.
- Provincial Constituencies

N°35

LEGEND

0.01 Per Cent = 0 of Total	MUNICIPALITIES - ALPHABETICAL	MUNICIPALITIES - NUMERICAL
0.25 " = 0 "	Abbotsford 10	1. Sarcee
0.5 " = 0 "	Abbotsford 21	2. St. Mary
0.75 " = 0 "	Abbotsford 32	3. St. Mary
1.0 " = 0 "	Abbotsford 43	4. St. Mary
1.5 " = 0 "	Abbotsford 54	5. St. Mary
2.0 " = 0 "	Abbotsford 65	6. St. Mary
2.25 " = 0 "	Abbotsford 76	7. St. Mary
	Abbotsford 87	8. St. Mary
	Abbotsford 98	9. St. Mary
	Abbotsford 109	10. St. Mary
	Abbotsford 120	11. St. Mary
	Abbotsford 131	12. St. Mary
	Abbotsford 142	13. St. Mary
	Abbotsford 153	14. St. Mary
	Abbotsford 164	15. St. Mary
	Abbotsford 175	16. St. Mary
	Abbotsford 186	17. St. Mary
	Abbotsford 197	18. St. Mary
	Abbotsford 208	19. St. Mary
	Abbotsford 219	20. St. Mary
	Abbotsford 230	21. St. Mary
	Abbotsford 241	22. St. Mary
	Abbotsford 252	23. St. Mary
	Abbotsford 263	24. St. Mary
	Abbotsford 274	25. St. Mary
	Abbotsford 285	26. St. Mary
	Abbotsford 296	27. St. Mary
	Abbotsford 307	28. St. Mary
	Abbotsford 318	29. St. Mary
	Abbotsford 329	30. St. Mary
	Abbotsford 340	31. St. Mary
	Abbotsford 351	32. St. Mary
	Abbotsford 362	33. St. Mary
	Abbotsford 373	34. St. Mary
	Abbotsford 384	35. St. Mary
	Abbotsford 395	36. St. Mary
	Abbotsford 406	37. St. Mary
	Abbotsford 417	38. St. Mary
	Abbotsford 428	39. St. Mary
	Abbotsford 439	40. St. Mary
	Abbotsford 450	41. St. Mary
	Abbotsford 461	42. St. Mary
	Abbotsford 472	43. St. Mary
	Abbotsford 483	44. St. Mary
	Abbotsford 494	45. St. Mary
	Abbotsford 505	46. St. Mary
	Abbotsford 516	47. St. Mary
	Abbotsford 527	48. St. Mary
	Abbotsford 538	49. St. Mary
	Abbotsford 549	50. St. Mary
	Abbotsford 560	51. St. Mary
	Abbotsford 571	52. St. Mary
	Abbotsford 582	53. St. Mary
	Abbotsford 593	54. St. Mary
	Abbotsford 604	55. St. Mary
	Abbotsford 615	56. St. Mary
	Abbotsford 626	57. St. Mary
	Abbotsford 637	58. St. Mary
	Abbotsford 648	59. St. Mary
	Abbotsford 659	60. St. Mary
	Abbotsford 670	61. St. Mary
	Abbotsford 681	62. St. Mary
	Abbotsford 692	63. St. Mary
	Abbotsford 703	64. St. Mary
	Abbotsford 714	65. St. Mary
	Abbotsford 725	66. St. Mary
	Abbotsford 736	67. St. Mary
	Abbotsford 747	68. St. Mary
	Abbotsford 758	69. St. Mary
	Abbotsford 769	70. St. Mary
	Abbotsford 780	71. St. Mary
	Abbotsford 791	72. St. Mary
	Abbotsford 802	73. St. Mary
	Abbotsford 813	74. St. Mary
	Abbotsford 824	75. St. Mary
	Abbotsford 835	76. St. Mary
	Abbotsford 846	77. St. Mary
	Abbotsford 857	78. St. Mary
	Abbotsford 868	79. St. Mary
	Abbotsford 879	80. St. Mary
	Abbotsford 890	81. St. Mary
	Abbotsford 901	82. St. Mary
	Abbotsford 912	83. St. Mary
	Abbotsford 923	84. St. Mary
	Abbotsford 934	85. St. Mary
	Abbotsford 945	86. St. Mary
	Abbotsford 956	87. St. Mary
	Abbotsford 967	88. St. Mary
	Abbotsford 978	89. St. Mary
	Abbotsford 989	90. St. Mary
	Abbotsford 1000	91. St. Mary
	Abbotsford 1011	92. St. Mary
	Abbotsford 1022	93. St. Mary
	Abbotsford 1033	94. St. Mary
	Abbotsford 1044	95. St. Mary
	Abbotsford 1055	96. St. Mary
	Abbotsford 1066	97. St. Mary
	Abbotsford 1077	98. St. Mary
	Abbotsford 1088	99. St. Mary
	Abbotsford 1099	100. St. Mary



20. Cochrane	137
25. Red Deer	136
31. Nanton	126
38. Vermillion	124
35. Leduc	106
44. Sturgeon	92
39. Alexandra	83
43. Stony Plain	80
42. Whitford	69
47. Pembina	44
52. Peace River	36
40. St. Paul	14
41. Beaver River	9
48. Lac Ste. Anne	9
50. Edson	4
51. Clearwater	4
53. Grouard	3
54. Athabasca	0

South of Township 39
South of Red Deer River
South of Township 25
South of Bow R. including Calgary
D^o excluding D^o
North of Township 38
North of Tp. 38 & S. of N. Saskatchewan R.
Between Bow & Red Deer Rivers
Calgary
N. of N. Sasks R. including Edmonton
S. of Tp. 39 & N. of Red Deer River
Edmonton
N. of N. Sasks R. excluding Edmonton

Calgary	2663
Edmonton	589
Lethbridge	57
Medicine Hat	283
Chesholms	283
Macleod	263
Gleichen	262
Vulcan	241
Champion	204
Carmanagay	187
Camrose	187
High River	183
Nanton	178
Taber	168
Ponoka	164
Wetaskiwin	154
Foremost	150
Red Deer	142
Fr. Saskatchewan	142
Granum	142
Youngstown	141
Killam	141



AUTOMOBILE LICENSES ISSUED FOR WHICH THERE WERE GIVEN ALBERTA POST OFFICE ADDRESSES, TOTALLING 20947. NUMBER OF POST OFFICE ADDRESSES NOT IN ALBERTA 156. Authority - List furnished by Calgary Automobile Club.

71.55 %
61.84 %
51.88 %
48.12 %
35.48 %
28.65 %
18.70 %
13.70 %
12.30 %
10.44 %
9.20 %
7.96 %
3.11 %

GRAPH - N^o 2
Scale - 1 Inch = 20

ALL POST OFFICES TO WHICH 100 AND OVER AUTOMOBILE LICENSES WERE SENT.

Edmonton	140
Red Deer	137
Cardston	127
Stettler	125
Carstairs	124
Provost	120
Strathmore	120
Driftdale	119
Staveland	119
Oyen	119
Empress	118
Magrath	117
Leland	115
Pincher Creek	110
Olas	108
Raymond	105
Warner	105
Vegreville	100

GRAPH - N^o 3
Scale - 1 Inch = 400

LEGEND

0.01 Per Cent = 0	of Total
0.25 " = 0	"
0.5 " = 0	"
0.075 " = 0.0	"
0.1 " = 0.0	"
0.25 " = 0.0	"
0.5 " = 0.0	"
0.75 " = 0.0	"
1.0 " = 0.0	"
1.5 " = 0.0	"
2.0 " = 0.0	"
2.25 " = 0.0	"

MUNICIPALITIES - ALPHABETICAL		MUNICIPALITIES - NUMERICAL	
Abbotsford	10	1. Garry	17
Abbotsford	10	2. Garry	18
Abbotsford	10	3. Garry	19
Abbotsford	10	4. Garry	20
Abbotsford	10	5. Garry	21
Abbotsford	10	6. Garry	22
Abbotsford	10	7. Garry	23
Abbotsford	10	8. Garry	24
Abbotsford	10	9. Garry	25
Abbotsford	10	10. Garry	26
Abbotsford	10	11. Garry	27
Abbotsford	10	12. Garry	28
Abbotsford	10	13. Garry	29
Abbotsford	10	14. Garry	30
Abbotsford	10	15. Garry	31
Abbotsford	10	16. Garry	32
Abbotsford	10	17. Garry	33
Abbotsford	10	18. Garry	34
Abbotsford	10	19. Garry	35
Abbotsford	10	20. Garry	36
Abbotsford	10	21. Garry	37
Abbotsford	10	22. Garry	38
Abbotsford	10	23. Garry	39
Abbotsford	10	24. Garry	40
Abbotsford	10	25. Garry	41
Abbotsford	10	26. Garry	42
Abbotsford	10	27. Garry	43
Abbotsford	10	28. Garry	44
Abbotsford	10	29. Garry	45
Abbotsford	10	30. Garry	46
Abbotsford	10	31. Garry	47
Abbotsford	10	32. Garry	48
Abbotsford	10	33. Garry	49
Abbotsford	10	34. Garry	50
Abbotsford	10	35. Garry	51
Abbotsford	10	36. Garry	52
Abbotsford	10	37. Garry	53
Abbotsford	10	38. Garry	54
Abbotsford	10	39. Garry	55
Abbotsford	10	40. Garry	56
Abbotsford	10	41. Garry	57
Abbotsford	10	42. Garry	58
Abbotsford	10	43. Garry	59
Abbotsford	10	44. Garry	60
Abbotsford	10	45. Garry	61
Abbotsford	10	46. Garry	62
Abbotsford	10	47. Garry	63
Abbotsford	10	48. Garry	64
Abbotsford	10	49. Garry	65
Abbotsford	10	50. Garry	66
Abbotsford	10	51. Garry	67
Abbotsford	10	52. Garry	68
Abbotsford	10	53. Garry	69
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Abbotsford	10	58. Garry	74
Abbotsford	10	59. Garry	75
Abbotsford	10	60. Garry	76
Abbotsford	10	61. Garry	77
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Abbotsford	10	102. Garry	118
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Abbotsford	10	104. Garry	120
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Abbotsford	10	110. Garry	126
Abbotsford	10	111. Garry	127
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Abbotsford	10	121. Garry	137
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Abbotsford	10	144. Garry	160
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Abbotsford	10	154. Garry	170
Abbotsford	10	155. Garry	171
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Abbotsford	10	186. Garry	202
Abbotsford	10	187. Garry	203
Abbotsford	10	188. Garry	204
Abbotsford	10	189. Garry	205
Abbotsford	10	190. Garry	206
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Abbotsford	10	192. Garry	208
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Abbotsford	10	200. Garry	216
Abbotsford	10	201. Garry	217
Abbotsford	10	202. Garry	218
Abbotsford	10	203. Garry	219
Abbotsford	10	204. Garry	220
Abbotsford	10	205. Garry	221
Abbotsford	10	206. Garry	222
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Abbotsford	10	208. Garry	224
Abbotsford	10	209. Garry	225
Abbotsford	10	210. Garry	226
Abbotsford	10	211. Garry	227
Abbotsford	10	212. Garry	228
Abbotsford	10	213. Garry	229
Abbotsford	10	214. Garry	230
Abbotsford	10	215. Garry	231
Abbotsford	10	216. Garry	232
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Abbotsford	10	222. Garry	238
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Abbotsford	10	224. Garry	240
Abbotsford	10	225. Garry	241
Abbotsford	10	226. Garry	242
Abbotsford	10	227. Garry	243
Abbotsford	10	228. Garry	244
Abbotsford	10	229. Garry	245
Abbotsford	10	230. Garry	246
Abbotsford	10	231. Garry	247
Abbotsford	10	232. Garry	248
Abbotsford	10	233. Garry	249
Abbotsford	10	234. Garry	250
Abbotsford	10	235. Garry	251
Abbotsford	10	236. Garry	252
Abbotsford	10	237. Garry	253
Abbotsford	10	238. Garry	254
Abbotsford	10	239. Garry	255
Abbotsford	10	240. Garry	256
Abbotsford	10	241. Garry	257
Abbotsford	10	242. Garry	258
Abbotsford	10	243. Garry	259
Abbotsford	10	244. Garry	260
Abbotsford	10	245. Garry	261
Abbotsford	10	246. Garry	262
Abbotsford	10	247. Garry	263
Abbotsford	10	248. Garry	264
Abbotsford	10	249. Garry	265
Abbotsford	10	250. Garry	266
Abbotsford	10	251. Garry	267
Abbotsford	10	252. Garry	268
Abbotsford	10	253. Garry	269
Abbotsford	10	254. Garry	270
Abbotsford	10	255. Garry	271
Abbotsford	10	256. Garry	272
Abbotsford	10	257. Garry	273
Abbotsford	10	258. Garry	274
Abbotsford	10	259. Garry	275
Abbotsford	10	260. Garry	276
Abbotsford	10	261. Garry	277
Abbotsford	10	262. Garry	278
Abbotsford	10	263. Garry	279
Abbotsford	10	264. Garry	280
Abbotsford	10	265. Garry	281
Abbotsford	10	266. Garry	282
Abbotsford	10	267. Garry	283

NOTE - L.I.D. Refers to Local Improvement District

MUNICIPALITIES-ALPHABETICAL

Table with 2 columns: Municipality Name, L.I.D. Number. Includes entries for various municipalities like Calgary, Edmonton, etc.

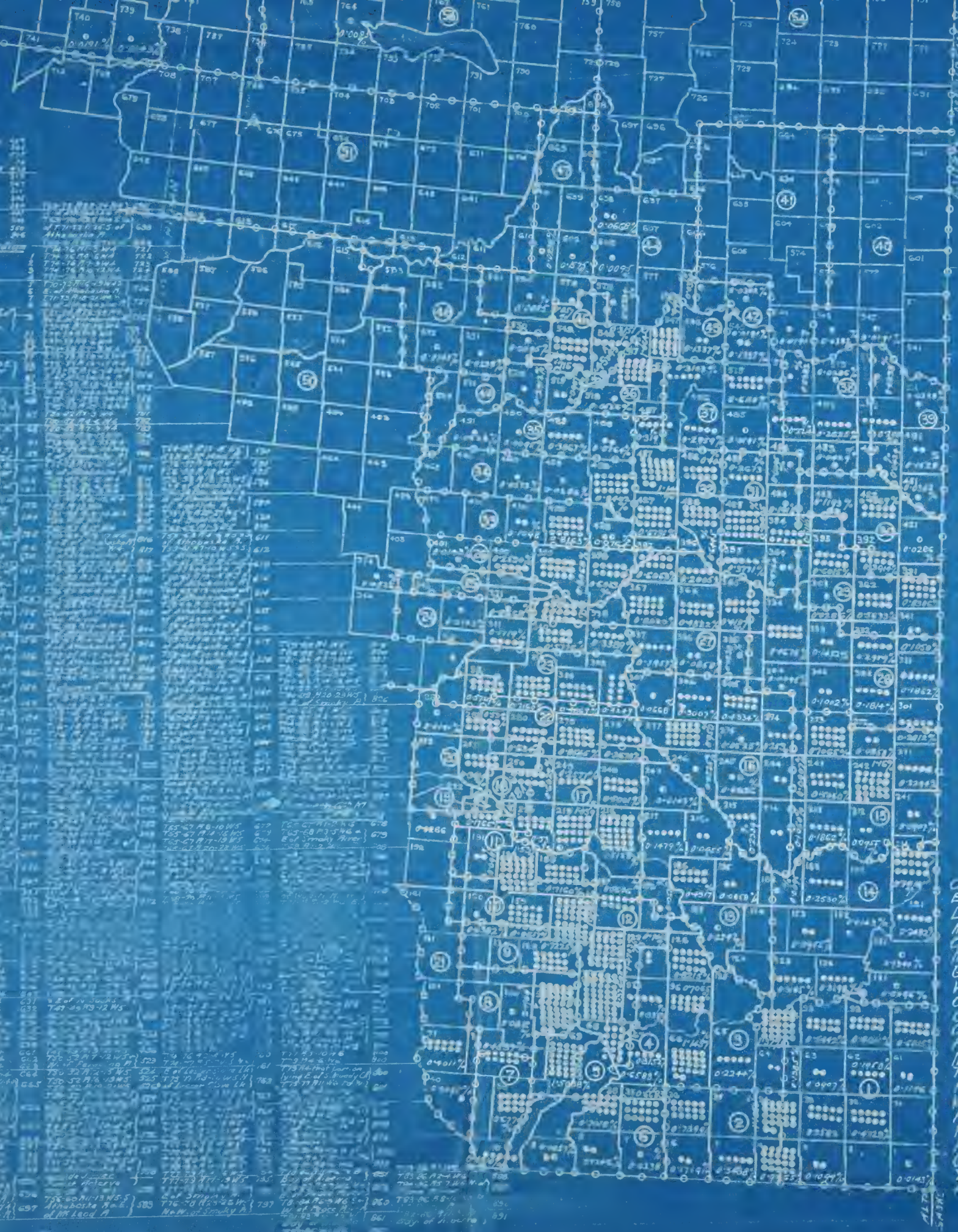


Table with 2 columns: Municipality Name, L.I.D. Number. Includes entries for various municipalities like Calgary, Edmonton, etc.



South of Township 39
South of Red Deer River
South of Township 25
South of Bow R. including Calgary
D² excluding D²
North of Township 38
North of Tp. 38 & 5. of N. Saskatchewan R.
Between Bow & Red Deer Rivers
Calgary
N. of N. Saskatchewan R. including Edmonton
S. of Tp. 39 N. of Red Deer River
Edmonton
N. of N. Saskatchewan R. excluding Edmonton

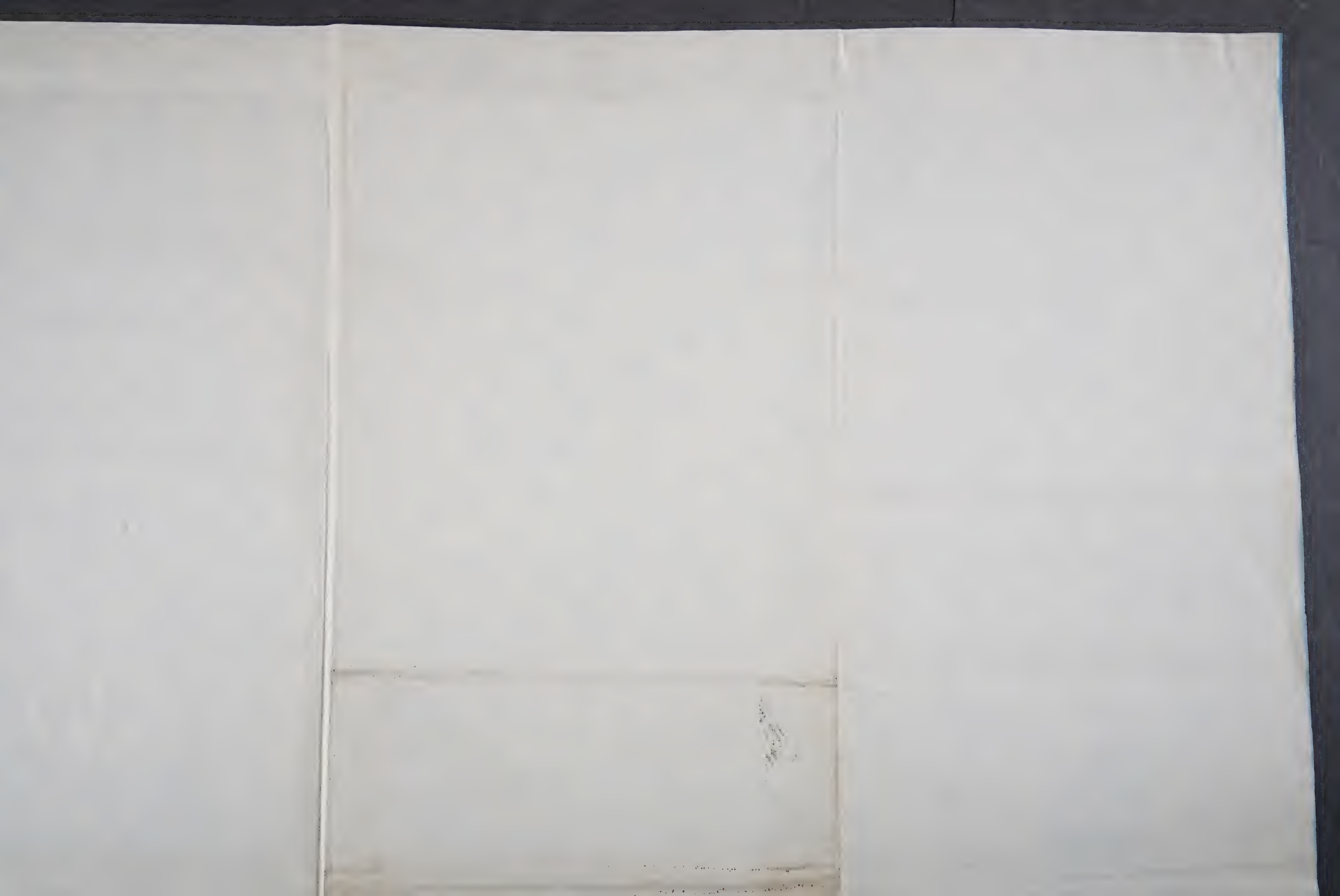
Table with 2 columns: Municipality Name, Percentage. Includes entries for various municipalities like Calgary, Edmonton, etc.

There are 54 Provincial Constituencies in Alberta. The southern 28 have for their northern boundary, that boundary of that Deer, Stettin and Coronation.
Red Deer has for its northern boundary that boundary of township 38 from the North Saskatchewan River to Blindman River and following Blindman and Red Deer Rivers to the head of said Red Deer River. Stettin has for its northern limit of township 31 from Battle Lake to Battle River.
Coronation, Battle River the north limit of township 40 across ranges 8-9-10 west of the 4th and northern limit of township 38 across ranges 1-2-3-4-5-6-7, west of the 4th.
The northern limit of township 38 carried across the Province would add to said Constituencies 5 townships, and cut off 19 townships a decrease of 14, and the number of Licenses is 71.18% of the whole. Across the entire Surveyed portion of the Province there are 40 townships at this point.
The northern limit of township 38 is the nearest East and West township line that divide the Constituencies of the Province in two equal numbers, however leaving more cut off than added by it.
The said 28 Constituencies represent 79.76% of the total number of automobile licenses.
The other 26 represent 20.24%.

ALL POST OFFICES TO WHICH 100 AND OVER AUTOMOBILE LICENSES WERE SENT.

Table with 2 columns: Municipality Name, Number of Licenses. Includes entries for various municipalities like Calgary, Edmonton, etc.





WRA 1974-169-2100-002-013



MUNICIPALITIES-NUMERICAL

NOTE: L.I.D. Refers to
Local Improvement
District

MUNICIPALITIES-
ALPHABETICAL

Acorn	241	Wentworth 1100	10
Ad. 10	242	Wentworth 1100	10
Ad. 11	243	Wentworth 1100	10
Ad. 12	244	Wentworth 1100	10
Ad. 13	245	Wentworth 1100	10
Ad. 14	246	Wentworth 1100	10
Ad. 15	247	Wentworth 1100	10
Ad. 16	248	Wentworth 1100	10
Ad. 17	249	Wentworth 1100	10
Ad. 18	250	Wentworth 1100	10
Ad. 19	251	Wentworth 1100	10
Ad. 20	252	Wentworth 1100	10
Ad. 21	253	Wentworth 1100	10
Ad. 22	254	Wentworth 1100	10
Ad. 23	255	Wentworth 1100	10
Ad. 24	256	Wentworth 1100	10
Ad. 25	257	Wentworth 1100	10
Ad. 26	258	Wentworth 1100	10
Ad. 27	259	Wentworth 1100	10
Ad. 28	260	Wentworth 1100	10
Ad. 29	261	Wentworth 1100	10
Ad. 30	262	Wentworth 1100	10
Ad. 31	263	Wentworth 1100	10
Ad. 32	264	Wentworth 1100	10
Ad. 33	265	Wentworth 1100	10
Ad. 34	266	Wentworth 1100	10
Ad. 35	267	Wentworth 1100	10
Ad. 36	268	Wentworth 1100	10
Ad. 37	269	Wentworth 1100	10
Ad. 38	270	Wentworth 1100	10
Ad. 39	271	Wentworth 1100	10
Ad. 40	272	Wentworth 1100	10
Ad. 41	273	Wentworth 1100	10
Ad. 42	274	Wentworth 1100	10
Ad. 43	275	Wentworth 1100	10
Ad. 44	276	Wentworth 1100	10
Ad. 45	277	Wentworth 1100	10
Ad. 46	278	Wentworth 1100	10
Ad. 47	279	Wentworth 1100	10
Ad. 48	280	Wentworth 1100	10
Ad. 49	281	Wentworth 1100	10
Ad. 50	282	Wentworth 1100	10
Ad. 51	283	Wentworth 1100	10
Ad. 52	284	Wentworth 1100	10
Ad. 53	285	Wentworth 1100	10
Ad. 54	286	Wentworth 1100	10
Ad. 55	287	Wentworth 1100	10
Ad. 56	288	Wentworth 1100	10
Ad. 57	289	Wentworth 1100	10
Ad. 58	290	Wentworth 1100	10
Ad. 59	291	Wentworth 1100	10
Ad. 60	292	Wentworth 1100	10
Ad. 61	293	Wentworth 1100	10
Ad. 62	294	Wentworth 1100	10
Ad. 63	295	Wentworth 1100	10
Ad. 64	296	Wentworth 1100	10
Ad. 65	297	Wentworth 1100	10
Ad. 66	298	Wentworth 1100	10
Ad. 67	299	Wentworth 1100	10
Ad. 68	300	Wentworth 1100	10
Ad. 69	301	Wentworth 1100	10
Ad. 70	302	Wentworth 1100	10
Ad. 71	303	Wentworth 1100	10
Ad. 72	304	Wentworth 1100	10
Ad. 73	305	Wentworth 1100	10
Ad. 74	306	Wentworth 1100	10
Ad. 75	307	Wentworth 1100	10
Ad. 76	308	Wentworth 1100	10
Ad. 77	309	Wentworth 1100	10
Ad. 78	310	Wentworth 1100	10
Ad. 79	311	Wentworth 1100	10
Ad. 80	312	Wentworth 1100	10
Ad. 81	313	Wentworth 1100	10
Ad. 82	314	Wentworth 1100	10
Ad. 83	315	Wentworth 1100	10
Ad. 84	316	Wentworth 1100	10
Ad. 85	317	Wentworth 1100	10
Ad. 86	318	Wentworth 1100	10
Ad. 87	319	Wentworth 1100	10
Ad. 88	320	Wentworth 1100	10
Ad. 89	321	Wentworth 1100	10
Ad. 90	322	Wentworth 1100	10
Ad. 91	323	Wentworth 1100	10
Ad. 92	324	Wentworth 1100	10



ALBERTA PROVINCIAL CONSTITUENCIES
NUMBER OF AUTOMOBILE LICENCES IN EACH
TOTAL NUMBER OF LICENCES 20,947

1. Medicine Hat
19. Calgary South
12. Little Bow
17. Gleichen
3. Taber
- 18A. Calgary Central
21. Rocky Mountain
13. Calgary North
4. Lethbridge
15. Acadia
16. Hand Hills
45. East Edmonton
- 43A. West Edmonton
32. Camrose
2. Warner
10. High River
27. Stettler
8. Claresholm
29. Ribstone
23. Rocky Mountain
14. Redcliff
31. Sedgewick
22. Didsbury
5. Macleod
43. Victoria
28. Coronation
23. Olds
26. Lacombe
6. Cardston
30. Wainwright
11. Okotoks
17. Vegreville
13. Bow Valley
33. Ponoka
24. Innisfail
7. Pincher Creek
34. Wetaskiwin
46. St. Albert
20. Cochrane
25. Red Deer
9. Nanton
38. Vermillion
35. Leduc
44. Sturgeon
39. Alexandra
43. Stony Plain
42. Whitford
47. Pembina
52. Peace River
40. St. Paul
41. Beaver River
48. Lac Ste. Anne
50. Edson
51. Clearwater
53. Grouard
54. Athabasca

GRAPH - No. 1

Scale - 1 inch = 200

City of Calgary. 12.5080%

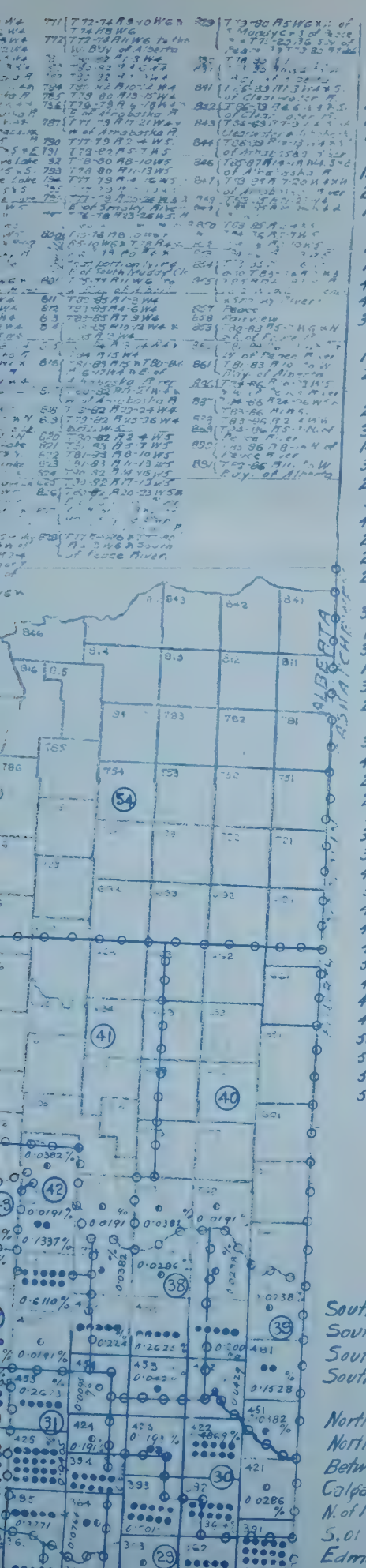
City of Edmonton 7.9602%

AUTOMOBILE LICENSES ISSUED FOR WHICH THERE WERE
GIVEN ALBERTA POST OFFICE ADDRESSES, TOTTALLING 2094
NUMBER OF POST OFFICE ADDRESSES NOT IN ALBERTA 15
Authority - List furnished by Calgary Automobile Club.

South of Township 39
South of Red Deer River
South of Township 25
South of Bow R. including Calgary
N^o excluding D^o
North of Township 38
North of T^o 38 & S. of N. Saskatchewan R.
Between Bow & Red Deer Rivers
Calgary
N. of N. Saskatchewan including Edmonton
S. of T^o 38 & N. of Red Deer River
Edmonton

ГРАФ № 2

Scale - 1 inch = 20

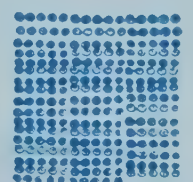


- 1. Medicine Hat
- 19. Calgary South
- 12. Little Bow
- 17. Gleichen
- 3. Taber
- 18. Calgary Central
- 21. Rocky Mountain
- 13. Calgary North
- 4. Lethbridge
- 15. Acadia
- 16. Hand Hills
- 15. East Edmonton
- 15. West Edmonton
- 32. Camrose
- 2. Warner
- 10. High River
- 27. Stettler
- 8. Claresholm
- 29. Ribstone
- 36. South Edmonton
- 14. Redcliff
- 31. Sedgewick
- 22. Didsbury
- 5. Macleod
- 13. Victoria
- 28. Coronation
- 23. Olds
- 26. Lacombe
- 6. Cardston
- 30. Wainwright
- 11. Okotoks
- 37. Vegreville
- 13. Bow Valley
- 33. Ponoka
- 24. Innisfail
- 7. Pincher Creek
- 34. Wetaskiwin
- 46. St. Albert
- 20. Cochrane
- 25. Red Deer
- 9. Nanton
- 38. Vermillion
- 35. Leduc
- 44. Sturgeon
- 39. Alexandra
- 43. Stony Plain
- 42. Whitford
- 47. Pembina
- 52. Peace River
- 40. St. Paul
- 41. Beaver River
- 48. Lac Ste. Anne
- 50. Edson
- 51. Clearwater
- 53. Grouard
- 54. Athabasca

ALBERTA PROVINCIAL CONSTITUENCIES
NUMBER OF AUTOMOBILE LICENCES IN EACH
TOTAL NUMBER OF LICENCES 20,947

1180	1180
1061	1061
996	996
902	902
894	894
801	801
770	770
762	762
701	701
700	700
683	683
683	683
676	676
554	554
537	537
499	499
496	496
468	468
455	455
440	440
437	437
420	420
402	402
394	394
328	328
318	318
311	311
288	288
266	266
260	260
257	257
238	238
210	210
204	204
199	199
194	194
159	159
157	157
136	136
126	126
124	124
104	104
92	92
85	85
80	80
68	68
44	44
36	36
14	14
9	9
9	9
4	4
4	4
3	3
0	0

GRAPH - N°1
Scale - 1 Inch = 200



City of Calgary. 12,500%



City of Edmonton 7,960%

AUTOMOBILE LICENSES ISSUED FOR WHICH THERE WERE
GIVEN ALBERTA POST OFFICE ADDRESSES, TOTALLING 20,947.
NUMBER OF POST OFFICE ADDRESSES NOT IN ALBERTA 156.
Authority - List furnished by Calgary Automobile Club.

71455%	71455%
618436%	618436%
513897%	513897%
430544%	430544%
355458%	355458%
289653%	289653%
197601%	197601%
137682%	137682%
125086%	125086%
107614%	107614%
93119%	93119%
77602%	77602%

GRAPH - N°2
Scale - 1 Inch = 20

- South of Township 39
- South of Red Deer River
- South of Township 25
- South of Bow R. including Calgary
- North of Township 38
- North of T. 38 S. of N. Saskatchewan R.
- Between Bow & Red Deer Rivers
- Calgary
- N. of N. Saks R. including Edmonton
- S. of T. 39 N. of Red Deer River
- Edmonton

ALBERTA AUTOMOBILE LICENSES 1917

Showing Per Centage of whole Province in each Municipality

CANADIAN PACIFIC RAILWAY COMPANY

COLONIZATION AND DEVELOPMENT BRANCH

J. S. DENNIS
CHIEF COMMISSIONER

MAP OF

ALBERTA

COMPILED BY W. PEARCE
Calgary, 1917 Aug 1918

Showing the number of Automobile Licenses in each of the said units issued during 1917. Graph N°1. Showing the number in each Provincial Constituency. Graph N°2 shows an analysis of the number issued, distributed in several areas. Graph N°3 shows the various Post Offices to which there were upwards of 99 Licenses sent.
Authority - List furnished by the Calgary Automobile Club.



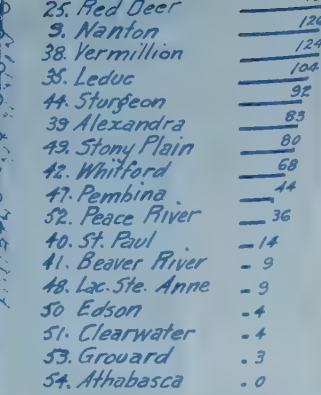
LEGEND

- Municipalities
- Provincial Constituencies

LEGEND

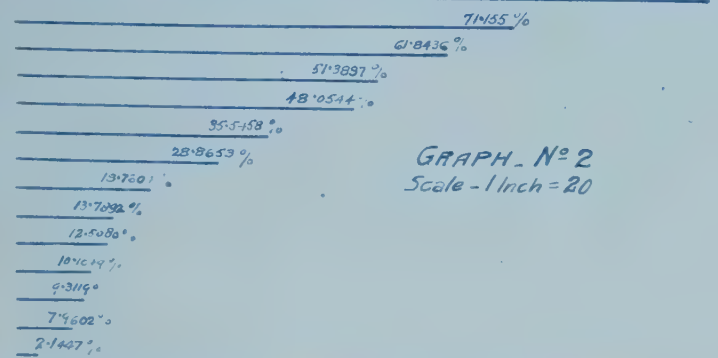
- 0.01 Per Cent = 1 dot of Total
- 0.25 " = 25 dots
- 0.5 " = 50 dots
- 0.75 " = 75 dots
- 1.0 " = 100 dots
- 1.5 " = 150 dots
- 2.0 " = 200 dots
- 2.25 " = 225 dots

Municipality	Number of Licenses	Percentage of Total
Calgary	1180	5.63%
Edmonton	770	3.68%
Wainwright	266	1.27%
Stettler	499	2.38%
Okotoks	210	1.00%
Pincher Creek	194	0.93%
St. Albert	159	0.76%
Red Deer	126	0.60%
Sturgeon	92	0.44%
Stony Plain	80	0.38%
Whitford	68	0.32%
Pembina	44	0.21%
Peace River	36	0.17%
St. Paul	14	0.07%
Beaver River	9	0.04%
Lac Ste. Anne	9	0.04%
Edson	4	0.02%
Clearwater	4	0.02%
Grouard	3	0.01%
Athabasca	0	0.00%



City of Edmonton 7.9602 %

100'0"



GRAPH - N° 2
Scale - 1 inch = 20

South of Township 33
South of Red Deer River
South of Township 25
South of Bow R. including Calgary
□° excluding □°
North of Township 38
North of T_o 38 & S. of N. Saskatchewan R.
Between Bow & Red Deer Rivers
Calgary
N. of N. Sasks. R. including Edmonton
S. of T_o 39 & N. of Red Deer River
Edmonton
N. of N. Sasks. R. excluding Edmonton

There are 56 Provincial Constituencies in Alberta. The southerly 28 have for their northerly boundary, that boundary of Red Deer, Stettler and Coronation.

Red Deer has for its northerly boundary that boundary of township 39 from the North Saskatchewan River to Blindman River and following Blindman and Red Deer Rivers to the bend of said Red Deer River at Centret Stettler the northerly limit of township 41 from Buffalo Lake to Battle River.

Coronation, Battle River the north limit of township 40 across ranges 8-9 & 10 west of the 4th and northerly limit of township 38 across ranges 1, 2, 3 & 5, 6 & 7, west of the 4th.

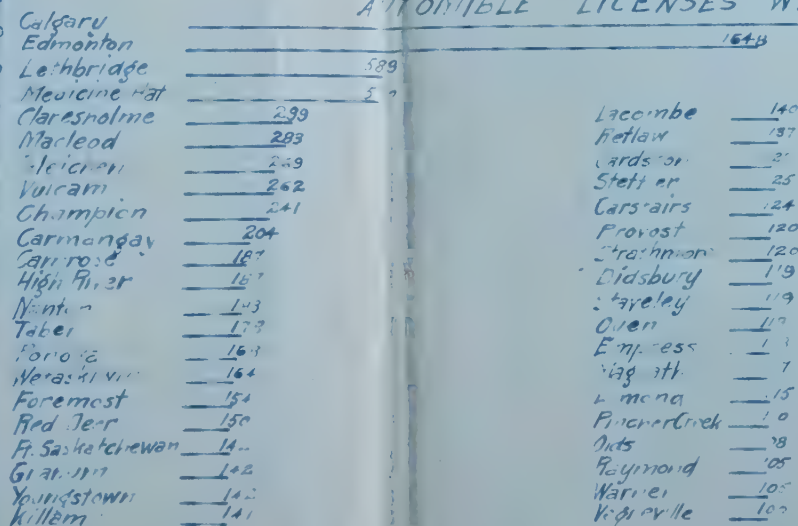
The northerly limit of township 38 carried across the Province would add to said Constituencies 5 townships, and cut off 19 townships a decrease of 4, and the number of Licenses is 71.34%, fifth where across the entire Surveyed portion of the Province there are 40 townships at this point.

The northerly limit of township 38 is the nearest East and West township line that divide the Constituencies of the Province in two equal numbers, however having more cut off than added by it.

The said 28 Constituencies represent 73.0765% of the total number of automobile licenses.

The other 28 represent 26.9234.

ALL POST OFFICES TO WHICH 100 AND OVER
AUTOMOBILE LICENSES WERE SENT.



GRAPH No 3
Scale - 1 cm = 10



0.01 Per Cent = 0 of Total

[illegible]

MUNICIPALITIES-
ALPHABETICAL

This is a detailed map of the New York City area, specifically focusing on the Hudson River, Harlem, and the Bronx. The map is overlaid with a grid of numbered circles (1-50) and various data points, including percentages and numerical values. The map is titled "New York City" and "Hudson River".

The map shows the Hudson River flowing through the center, with the Harlem River and the Bronx River also visible. The map is divided into numerous small squares, each containing a number and a percentage. The numbers are arranged in a grid, with the highest numbers (40-50) in the upper right and the lowest numbers (1-10) in the lower left. The percentages are also arranged in a grid, with the highest percentages (0.0143% to 0.0191%) in the upper right and the lowest percentages (0.0005% to 0.0010%) in the lower left.

The map is a technical drawing, likely a map of a specific area of interest, such as a city or a region. It is a detailed map, showing the Hudson River, Harlem, and the Bronx. The map is overlaid with a grid of numbered circles (1-50) and various data points, including percentages and numerical values. The map is titled "New York City" and "Hudson River".

25. Red Deer	—
3. Nanion	—
38. Vermillion	—
35. Leduc	—
44. Sturgeon	—
39. Alexandra	—
43. Stony Plain	—
42. Whittford	—
47. Pembina	—
52. Peace River	—
40. St. Paul	— 14
41. Beaver River	— 9
48. Lac Ste. Anne	— 9
50. Edson	— 4
51. Clearwater	— 4
53. Grouard	— 3
54. Athabasca	— 0

City of Calgary 12.5080%

AUTOMOBILE LICENSES ISSUED FOR WHICH THERE WERE GIVEN ALBERTA POST OFFICE ADDRESSES, TOTALLING 203. NUMBER OF POST OFFICE ADDRESSES NOT IN ALBERTA 1.
Authority - List furnished by Calgary Automobile Club.

South of Township 39
South of Red Deer River
South of Township 25
South of Bow R. including Calgary
D^e excluding D^e
North of Township 38
North of T. 39 & S. of N. Saskatchewan
Between Bow & Red Deer Rivers
Calgary
N. of N. Sasks. R. including Edmonton
S. of T. 39 & N. of Red Deer River
Edmonton
N. of N. Sasks. R. excluding Edmonton

There are 56 Provincial Constituencies in Alberta. The 5 others, 28 have for their northerly boundary, that boundary of Red Deer, Stettler and Coronation.
Red Deer has for its northerly boundary that boundary of township 39 from the North Saskatchewan River to Blindman River and follows Blindman and Red Deer Rivers to the bend of said Red Deer River. Stettler the northerly limit of township 41 from Buffalo Lake to Battle River.
Coronation, Battle River the north limit of township 40 across ranges 8-9 to west of the 4th northerly limit of township 38 across ranges 1-2-3 4-5-6-7, west of the 4th.
The northerly limit of township 38 carried across the Province would add to said Constituencies 5 townships, and cut off 19 townships a decrease of 4, and the number of Licenses is 71,134% of the whole.
Across the entire Surveyed portion of the Province there are 40 townships at this point.
The northerly limit of township 38 is the nearest East and West township line that divide the Cons of the Province in two equal portions, having a balance more cut off than added by it.
The said 28 Constituencies represent 73,076% of the total number of automobile licenses.
The other 28 represent 26,924.

ALL POST OFFICES TO WHICH 100 AND OVER
AUTOMOBILE LICENSES WERE SENT

Calgary	_____	_____
Edmonton	_____	_____
Leithbridge	_____	58
Medicine Hat	_____	5
Clareholme	239	_____
Marleod	293	_____
Gleichen	259	_____
Vulcan	262	_____
Champion	241	_____
Carmangay	204	_____
Capriote	167	_____
Hill, Peter	16	_____
Nanton	193	_____
Taber	179	_____
Porcupine	169	_____
Wetaskiwin	164	_____
Foremost	50	_____
Red Deer	150	_____
Ft. Saskatchewan	14	_____
Gibson	102	_____
Youngstown	142	_____
Killam	141	_____

Lacomb	140
Fellow	137
Cardston	127
Steffen	25
Carstairs	24
Prosser	120
Greenman	120
Stonbury	19
Staveley	13
Owen	12
Emress	11
Waggett	1
Monro	5
Finch-Coch	0
Mis	28
Lyndon	25
Warner	105
Keeville	105

GR, 41 N²
Scale 1:100 = 40

21

25

11335

Calhoun

Constitution

11335

11335

35

11355

U.S. 100

Centennial

100

100

2

GRAPH

INTENDED TO ILLUSTRATE PRODUCTION
AND SUPPLY OF COKE FOR FUEL
AT COKE PRODUCING CENTRES
CALGARY, EDMONTON, AND
MEDICINE HAT

W. PEARCE



... & Etc.
COMPANY

...the



PROPERTY SQUADSTANT TO
CALGARY ED MONTON AS
1111 COOKING CENTRE

MEDICINE HAT

W. PEARCE

- 1 - MEDICINE HAT DISTRICT
- 2 - MEDICINE HAT DISTRICT
- 3 - MEDICINE HAT DISTRICT
- 4 - MEDICINE HAT DISTRICT
- 5 - MEDICINE HAT DISTRICT
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- 100 - MEDICINE HAT DISTRICT

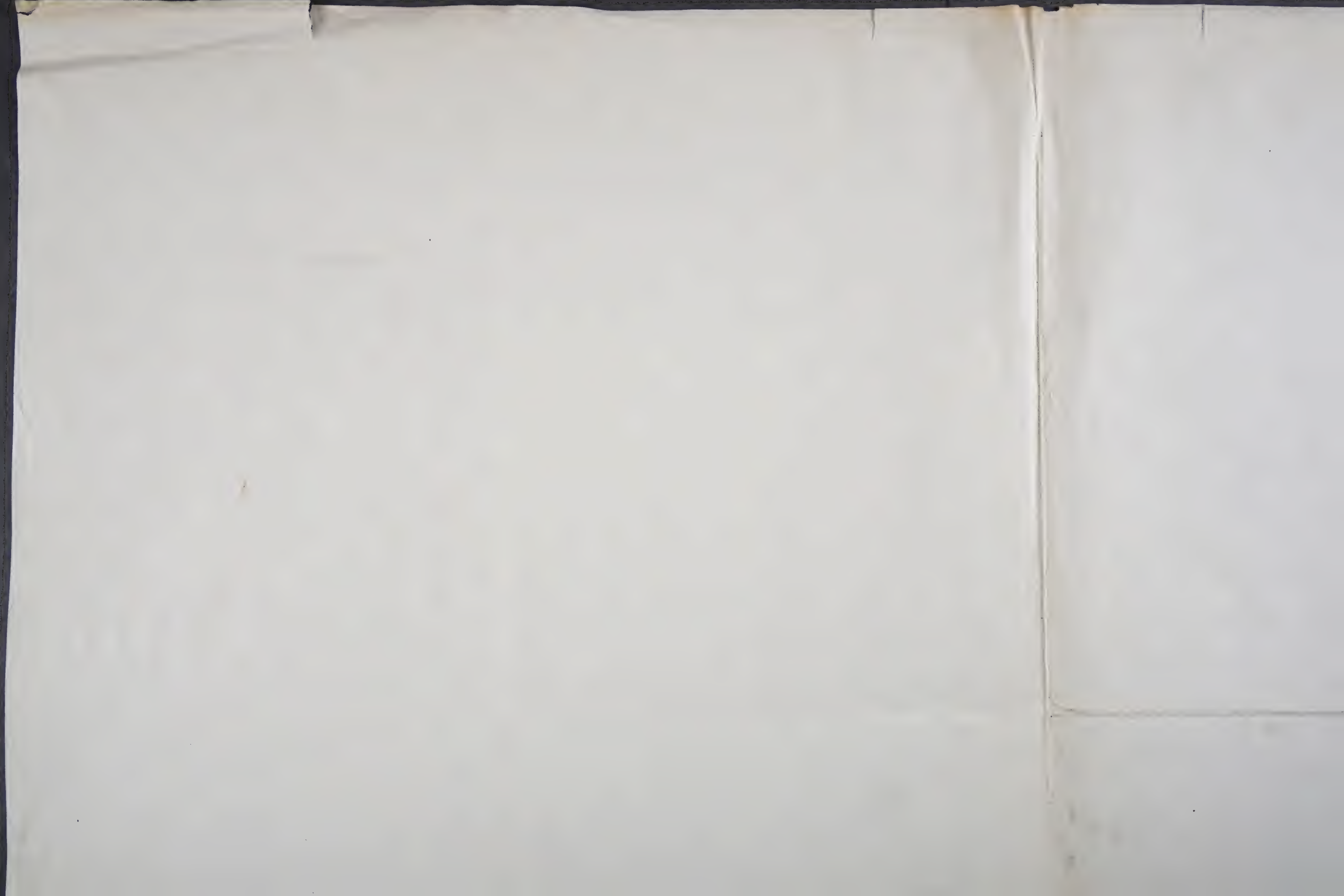
MUNICIPALITIES ALPHABETICAL

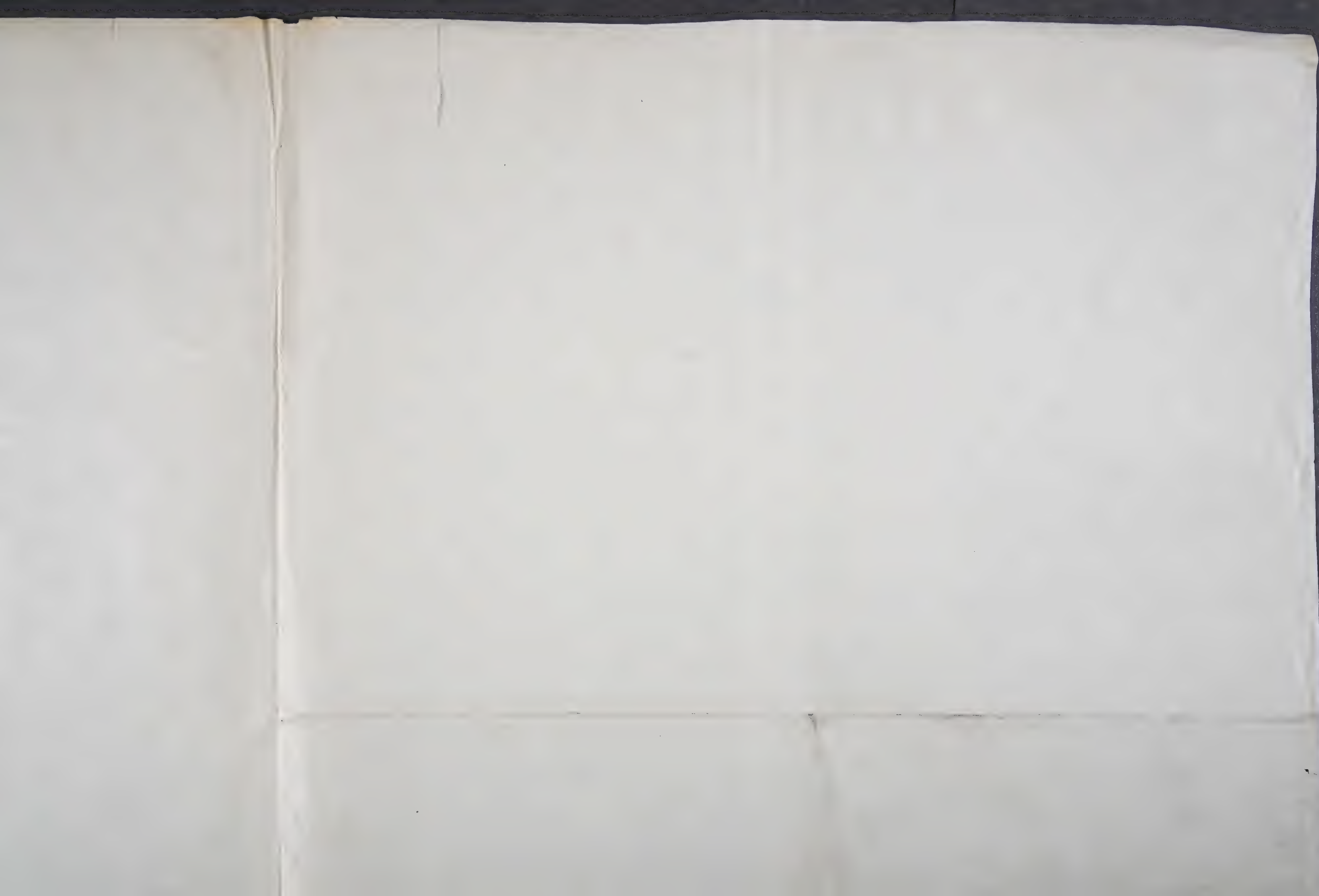
MUNICIPALITIES NUMERICAL



W. PEARCE







46 Super

4/6



BY-PRODUCT COKE OV

PRODUCT COKE OVENS.

Owing to investments and location of Beehive oven plants they will only gradually decrease, otherwise the output would soon be wholly By-Product. When By-Product oven gas is in demand, Producer gas can readily be substituted for heating ovens thereby affecting very considerable economy.

% and 433% respectively of the total tonnage 56,670,000 Tons. Increase in total coke tonnage 1909-1918. 44.2%. Decrease in Beehives 1%. Increase in By-Product 219.9%.

In other words coals make Domestic coke which would not make metallurgical

Ovens			Coke's		By-Products								Coke Classification			Body of Gas Used in Heating Ovens	Ton of Coke per Oven per Hour	Cost of Gas per Ton of Coke	Remarks	
Number	Size	BTU's per Cu. Ft.	Candle Power	High Volatile in %	Coke in Tons	Tar in Gals.	Ammonia Sulphate in lbs.	Pure Benzol in gals.	Pure Naphthalene in gals.	Xylol in gals.	Solvent Naphthalene in gals.	Naphthalene in Tons	Gas M. Cu. Ft.	Blast Furnace Tons	Breeze Tons	Other Tons				
				8	82	182,000	120,000	3,400,000	290,000	84,000	30,000	87	2,847,000	All			38	505	18,846.30	All coke produced, used for plant furnaces.
																				Parent Coy. Semet Solvay Coy. Syracuse. Cap. \$20,000,000.
																				Coke used for metallurgical purposes. Controlled by U.S. Steel Corp.
																				Coke used for Blast furnaces. Operated by Semet Solvay Coy. Syracuse.
																				Coke used for Blast furnaces.
				100		2,963,482	7,591,680	456,447	110,517		96,360		3,588,275				46			Coke used for Blast furnaces. 6 months output.
													1650							Operated by Semet Solvay Coy.
																				80 Wilpulle ovens under construction.
					24,400	4,7330	134,160						355					1858	14,716	Controlled by U.S. Steel Corp. Metallurgical coke made.
																				Controlled by Chicago Gas & Electric Coy.
																				Controlled by U.S. Steel Corp.
				70	30	599,233	6,740,859	16,400,891	1,836,000	247,296	103,784	121	8,609	All			40	4600	14,866	
617	9					2,801,582	1,600,635						3841				50			
						1,921,848	339,867	7,817,817	145,199	7713	41,943	30	2482				36			Also 40 Wilpulle ovens.
				100		25,200	360,000	180,000					360,000				1145	10,857		Controlled by Metropolitan Gas & Electric Coy. Klanna ovens used.
				90	10	108,100	1,144,911	769,074	260,000	50,000	11,000	4,000	20				70	4800		Includes 30 Gas Machinery Coy. By-Product Coke Ovens.
				50	50	73,3913	7,009,127	20,193,430				28	118,222	All			490	4100	15,000	150 Koppers ovens under construction.
			18										2845							Operated by Semet Solvay Coy. Syracuse.
																				Parent Coy Semet Solvay Coy. Syracuse.
																				Controlled by U.S. Steel Corp.
70	450	16	100		12,250	1,512,000	822,000						705	All			50	1865	2800	Evidently can save in either quantity of coke or gas or both.
			80	20									2032							Controlled by Pittsburg By-Product Coke Coy.
72	370	13	80	20		4,000,000	2,000,000	670,000	13,300		167,000		2222				45			Controlled by Pittsburg By-Product Coke Coy. 5 months output.
																				Controlled by Dinner Steel Coy.
				50	50	112,572	1,539,108	2,597,154	232,259				579				55	2447	5143	Parent Coy. Semet Solvay Coy. Syracuse. Evidently can save in coke or gas or both.
																				Coke used for Blast furnaces. Includes 282 Klanna ovens.
			100			10	20	2	7	3	5		10				45			Controlled by M.A. Hanna Coy. Roberts Flueless ovens.
			80	20	231,981	2,672,939	7,540,157	648,967	123,664		36,491	115	3043				45	4930	16,200	
																				Controlled by U.S. Steel Corp.
																				Operated by Semet Solvay Coy.
			80	15	848,260	10,950,000	29,200,000	2,372,500	438,000		182,500	187	12,778	51160	36,000		45	4150	5060	12,000,000 Cu. Ft. is evidently returned and here makes the difference.
72	685	15	80	20													60			Not operating

25761

1849

Ms. 448

By - Products to
Ed. Brown.

—

Ed. Brown

Handwritten in red ink:
M
1/1/12

OUTPUT OF COALS OF THE PROVINCE OF ALBERTA AND THAT PART OF B.C. EMBRACED IN "GRAPH 51". ALL OF THOSE COALS EMBRACED IN THE B.C. PORTION OF SAID GRAPH ARE BITUMINOUS, AND THOSE EMBRACED IN THE ALBERTA PORTION OF THE SAID GRAPH ARE PRACTICALLY BITUMINOUS AND ANTHRACITE. THE ANTHRACITE PRODUCTION IS INCLUDED UNDER THE HEAD BITUMINOUS AND IS EQUAL TO ABOUT 1% OF THE COMBINED VOLUME.

IN NUMBERS 10, 11, 27 & 31 IT WILL BE NOTICED THAT THERE ARE THREE COLUMNS IN WHICH THERE IS NO DATA, CAUSED BY THE OFFICIAL REPORTS NOT CONTAINING SUCH DATA.

Graph. No 52.

No		1907	1908	1909	1910	1911	1912	1913	1914	1915
1	Total Output of Alberta	1,834,745	1,845,000	2,174,239	3,036,757	1,694,564	3,446,349	4,306,346	3,821,739	3,434,891
2	Output of that portion of B.C. as shown on Graph 51 (practically all Bituminous)	981,938	987,937	1,034,242	1,528,764	495,104	1,412,558	1,491,533	1,069,804	954,881
3	No 1 + No 2	2,816,683	2,832,937	3,208,481	4,565,541	2,189,668	4,858,907	5,797,879	4,891,543	4,389,772
4	Output of that portion of Alberta as shown on Graph 51 practically all Bituminous	1,195,410	1,260,666	1,410,656	2,158,746	706,511	2,062,848	2,419,735	1,789,501	1,581,652
5	No 2 + No 4	2,177,348	2,248,633	2,444,898	3,687,530	1,201,615	3,475,406	3,911,268	2,859,305	2,536,533
6	Total Bituminous Output of the whole of Alberta	1,195,410	1,260,666	1,410,656	2,158,746	729,854	2,104,960	2,498,111	1,868,318	1,701,473
7	% 4 is of 6	100.00	100.00	100.00	100.00	96.80	97.96	96.86	95.78	92.97
8	% 4 is of 1	65.17	68.33	64.88	71.09	41.69	59.86	56.19	46.83	46.05
9	% 5 is of 3	77.30	79.38	76.20	80.78	54.88	71.52	67.46	58.46	57.79
10	Tonnage of 4 used in Alberta	No	Data	available	1,558,948	576,312	1,824,878	2,122,987	1,562,057	1,419,071
11	" 4 " outside of Alberta	"	"	"	599,798	130,199	237,970	296,748	227,444	162,571
12	" 4 made into Coke	112,887	128,397	148,104	196,249	61,591	170,818	104,012	44,249	38,871
13	" 4 Coke Product	73,782	75,657	87,812	121,578	35,984	105,684	68,167	29,058	23,871
14	% 13 is of 12	65.37	58.92	59.28	61.96	55.42	61.87	65.53	65.68	61.29
15		—	—	—	72.22	81.58	88.46	87.74	97.30	89.72
16	% 10 is of 4	—	—	—	72.22	81.58	88.46	87.74	97.30	89.72

ALS OF THE PROVINCE OF ALBERTA AND THAT PART OF B.C. EMBRACED IN "GRAPH 51".
 EMBRACED IN THE B.C. PORTION OF SAID GRAPH ARE BITUMINOUS, AND THOSE
 ALBERTA PORTION OF THE SAID GRAPH ARE PRACTICALLY BITUMINOUS AND ANTHRACITE.
 PRODUCTION IS INCLUDED UNDER THE HEAD BITUMINOUS AND IS EQUAL TO ABOUT 0.9 %
 VOLUME.

11, 27 & 31 IT WILL BE NOTICED THAT THERE ARE THREE COLUMNS IN WHICH
 CAUSED BY THE OFFICIAL REPORTS NOT CONTAINING SUCH DATA.

Calgary 12th July 1920
 W. Pearce.

1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	Total	Average Annual
45.000	2.174.239	3.036.757	1.694.564	3.446.349	4.306.346	3.821.739	3.434.891	4.648.604	4.863.414	6.148.620	41.255.268	3.437.939
87.957	1.034.242	1.528.784	495.104	1.412.558	1.491.533	1.069.804	954.881	988.143	617.967	820.808	12.383.719	1.031.977
32.937	3.208.481	4.565.541	2.189.668	4.858.907	5.797.879	4.891.543	4.389.772	5.636.747	5.481.381	6.969.428	53.638.987	4.469.916
60.666	1.410.656	2.158.746	706.511	2.062.848	2.419.735	1.789.501	1.581.654	1.824.567	1.518.263	2.007.420	19.935.977	1.661.331
48.633	2.444.898	3.687.530	1.201.615	3.475.406	3.911.268	2.859.305	2.536.535	2.812.710	2.136.230	2.828.228	32.319.706	2.693.309
60.666	1.410.656	2.158.746	729.854	2.104.960	2.498.111	1.868.818	1.701.477	2.392.389	2.178.636	2.917.587	22.417.310	1.868.110
00.00	100.00	100.00	96.80	97.96	96.86	95.78	92.97	76.27	69.69	68.81	88.93	88.93
68.33	64.88	71.09	41.69	59.86	56.19	46.83	46.05	39.25	31.23	32.65	48.32	48.32
79.38	76.20	80.78	54.88	71.52	67.46	58.46	57.79	49.90	38.98	40.59	60.26	60.26
Data	available	1.558.948	576.312	1.824.878	2.122.967	1.562.057	1.419.076	1.409.900	1.296.157	1.376.882		
"	"	599.798	130.199	237.970	296.748	227.444	162.578	414.667	222.106	630.538		
28.397	148.104	196.249	61.591	170.818	104.012	44.249	38.878	67.105	51.905	53.462	1.177.657	98.138
75.657	87.812	121.578	35.984	105.684	68.167	29.058	23.826	41.950	31.630	32.661	727.789	60.649
58.92	59.28	61.96	58.42	61.87	65.53	65.68	61.29	62.52	60.94	61.10	61.80	61.80
		72.22	81.58	88.46	87.74	87.30	89.75	77.28	85.38	68.59		

28.397	148.104	599.798	130.199	237.970	296.748	227.444	162.378	414.667	222.106	630.538		
75.657	87.812	196.249	61.591	170.818	104.012	44.249	38.878	67.105	51.905	53.462	1.177.657	98.138
58.92	59.28	121.578	35.984	105.684	68.167	29.058	23.826	41.950	31.630	32.661	727.789	60.649
		61.96	58.42	61.87	65.53	65.68	61.29	62.52	60.94	61.10	61.80	61.80
		72.22	81.58	88.46	87.74	87.30	89.75	77.28	85.38	68.59		
		27.78	18.42	11.54	12.26	12.70	10.25	22.72	14.62	31.41		
225.017	152.775	204.487	106.556	258.406	321.899	156.908	92.505	84.348	82.653	86.959	2.016.918	168.076
298.849	395.796	841.218	135.081	617.951	599.935	436.109	414.422	433.388	252.949	383.285	5.135.361	427.947
22.78	14.77	13.33	21.52	18.30	21.58	14.67	9.69	8.54	13.38	10.59	16.29	16.29
30.25	38.27	55.04	27.29	43.75	40.23	40.77	43.40	43.86	40.94	46.69	41.47	41.47
403.480	409.320	374.661	117.215	444.534	485.270	398.117	384.710	394.230	217.786	264.664	4.255.601	354.633
263.183	274.549	241.580	75.377	296.053	320.370	262.727	269.449	270.805	144.440	185.001	2.834.860	238.230
65.22	67.08	64.48	64.30	66.60	66.02	66.00	70.05	68.70	66.33	69.90		
338.840	362.361	363.158	111.361	401.737	385.537	291.785	293.275	312.755	175.800	217.662	3.559.379	296.615
75.657	87.812	70.434	28.102	98.938	65.167	29.058	23.764	41.950	31.598	32.559	658.821	34.902
0	0	51.144	7.982	6.746	0	0	62	0	32	102		
531.877	557.424	570.910	178.806	615.352	589.282	442.366	423.588	461.335	269.691	318.126	5.433.258	452.771
23.66	22.80	15.48	14.88	17.71	15.07	15.47	16.70	16.40	12.82	11.25	16.81	16.81
60.611	76.357	92.202	39.902	92.292	94.002	75.085	67.157	76.214	64.568	65.677	853.605	71.134
Data	available	39.030	40.810	91.043	85.087	82.039	72.133	82.302	73.694	76.059		
6.13	7.38	6.03	8.06	6.53	6.30	7.02	7.03	7.71	10.45	8.01	6.89	6.89
		1.81	5.78	4.41	3.52	4.58	4.56	4.51	4.85	3.79		
23.866	548.571	1.045.705	341.637	876.757	912.834	593.014	506.928	517.746	335.612	470.244	7.243.700	603.642
96.008	1.172.767	1.715.830	531.986	1.547.041	2.130.703	1.359.133	1.297.846	1.574.439	1.296.157	1.773.370	16.528.218	1.377.352
53.02	53.03	68.42	69.00	62.06	61.20	55.44	53.08	52.39	54.32	57.29	58.50	58.50
86.94	83.13	79.49	75.30	75.00	88.06	75.96	82.07	86.30	85.40	88.24	82.90	82.90
19.874	1.721.338	2.761.535	873.623	2.423.798	3.043.537	1.952.147	1.804.774	2.092.185	1.631.769	2.243.614	23.771.916	1.980.993
31.183	232.328	229.541	73.958	238.606	264.841	199.196	241.900	232.303	130.203	165.508	2.397.473	199.789
38.298	45.344	9.778	1.419	56.288	56.701	60.830	27.549	38.502	14.270	19.493	435.549	36.295
66.840	320.140	299.975	102.060	337.544	330.008	228.254	265.664	274.253	161.801	198.067	3.056.294	254.691
87.84	84.65	95.03	98.12	80.60	82.66	75.82	89.78	85.78	90.18	89.38	84.58	84.58

11	" 4 outside of Alberta	"	"	"	539.798	130.199	237.970	296.748	227.444	162.570
12	" 4 made into Coke	112.887	128.397	148.104	196.249	61.591	170.818	104.012	44.249	38.870
13	" 4 Coke Product	73.782	75.657	87.812	121.578	35.984	105.684	68.167	29.058	23.820
14	% 13 is of 12	65.37	58.92	59.28	61.96	58.42	61.87	65.53	65.68	61.29
15										
16	% 10 is of 4	—	—	—	72.22	81.58	88.46	87.74	87.30	89.75
17	% 11 is of 4	—	—	—	27.78	18.42	11.54	12.26	12.70	10.25
18	Tonnage of 2 sold in Canada	244.408	225.017	152.775	204.487	106.556	258.406	321.899	156.805	92.500
19	" 2 outside of Canada	326.378	298.849	395.796	841.218	135.081	617.951	599.935	436.109	414.420
20	% 18 is of 2	24.89	22.78	14.77	13.33	21.52	18.30	21.58	14.67	9.69
21	% 19 is of 2	33.24	30.25	38.27	55.04	27.29	43.75	40.23	40.77	43.40
22	Tonnage of 2 used to make Coke	361.614	403.480	409.320	574.661	117.215	444.534	485.270	398.117	384.710
23	" Coke produced	231.326	263.183	274.549	241.580	75.377	296.053	320.370	262.727	269.449
24	% 23 is of 22	63.97	65.22	67.08	64.48	64.30	66.60	66.02	66.00	70.05
25	Nº 13 + Nº 23	305.108	338.840	362.361	363.158	111.361	401.737	385.537	291.785	293.270
26	Tonnage of 13 sold in Canada	73.782	75.657	87.812	70.434	28.102	98.938	65.167	29.058	23.764
27	" 13 " U.S.	0	0	0	51.144	7.982	6.746	0	0	6.746
28	Nº 12 + Nº 22	474.501	531.877	557.424	570.910	178.806	615.352	589.282	442.366	423.588
29	% 28 is of 5	21.80	23.66	22.80	15.48	14.88	17.71	15.07	15.47	16.70
30	Tonnage used in firing Boilers in 2	49.538	60.611	76.357	92.202	39.902	92.292	94.002	78.085	67.157
31	" " " " in 4	No	Data	available	39.030	40.810	91.043	85.087	82.039	72.133
32	% 30 is of 2	5.04	6.13	7.38	6.03	8.06	6.53	6.30	7.02	7.03
33	% 31 is of 4	—	—	—	1.81	5.78	4.41	3.52	4.58	4.56
34	Tonnage of 2 disposed of as Coal	570.786	523.866	548.571	1,045.705	341.637	876.757	912.834	593.014	506.920
35	" 4 " " "	1,032.938	1,096.008	1,172.767	1,715.830	531.986	1,547.041	2,130.703	1,359.133	1,297.840
36	% 34 is of 2	58.12	53.02	53.03	68.42	69.00	62.06	61.20	55.44	53.08
37	% 35 is of 4	86.41	86.94	83.13	79.49	75.30	75.00	88.06	75.96	82.07
38	Nº 34 + Nº 35	1,603.724	1,619.874	1,721.338	2,761.535	873.623	2,423.798	3,043.537	1,932.147	1,804.774
39	Tonnage of 23 sold in Canada	157.906	231.183	232.328	229.541	73.958	238.606	264.841	199.196	241.900
40	" " " " U.S.	67.077	38.298	45.344	9.778	1.419	56.288	56.701	60.830	27.540
41	Nº 26 + Nº 39	231.688	306.840	320.140	299.975	102.060	337.544	330.008	228.254	265.664
42	% 39 is of 23	68.28	87.84	84.63	95.03	96.12	80.60	92.66	75.82	89.75



1920

#52

1920

OUTPUT OF COALS OF THE PROVINCE OF ALBERTA AND THAT PART OF B.C. EMBRACED IN "GRA
ALL OF THOSE COALS EMBRACED IN THE B.C. PORTION OF SAID GRAPH ARE BITUMINOUS, AND THO
EMBRACED IN THE ALBERTA PORTION OF THE SAID GRAPH ARE PRACTICALLY BITUMINOUS AND ANTHR
THE ANTHRACITE PRODUCTION IS INCLUDED UNDER THE HEAD BITUMINOUS AND IS EQUAL TO ABOUT 0
OF THE COMBINED VOLUME.

IN NUMBERS 10, 11, 27 & 31 IT WILL BE NOTICED THAT THERE ARE THREE COLUMNS IN WHI
THERE IS NO DATA, CAUSED BY THE OFFICIAL REPORTS NOT CONTAINING SUCH DATA.

Graph. No 52.

No		1907	1908	1909	1910	1911	1912	1913	1914	1915
1	Total Output of Alberta	1 834.745	1 845.000	2 174.239	3 036.757	1 694.564	3 446.349	4 306.346	3 821.739	3 434.891
2	Output of that portion of B.C. as shown on Graph 51 (practically all Bituminous)	981.938	987.957	1 034.242	1 528.784	495.104	1 412.558	1 491.533	1 069.804	954.881
3	No 1 + No 2	2 816.683	2 832.957	3 208.481	4 565.541	2 189.668	4 858.907	5 797.879	4 891.543	4 389.772
4	Output of that portion of Alberta as shown on Graph 51 practically all Bituminous	1 195.410	1 260.666	1 410.656	2 158.746	706.511	2 062.848	2 419.735	1 789.501	1 581.654
5	No 2 + No 4	2 177.348	2 248.633	2 444.898	3 687.530	1 201.615	3 475.406	3 911.268	2 859.305	2 536.535
6	Total Bituminous Output of the whole of Alberta	1 195.410	1 260.666	1 410.656	2 158.746	729.854	2 104.960	2 498.111	1 868.318	1 701.477
7	% 4 is of 6	100.00	100.00	100.00	100.00	96.80	97.96	96.86	95.78	92.97
8	% 4 is of 1	65.17	68.33	64.88	71.09	41.69	59.86	56.19	46.83	46.05
9	% 5 is of 3	77.30	79.38	76.20	80.78	54.88	71.52	67.46	58.46	57.79
10	Tonnage of 4 used in Alberta	No	Data	available	1 558 948	576 312	1 824 878	2 122 987	1 562 057	1 419 076
11	" " 4 " outside of Alberta	"	"	"	539.798	130.199	237.970	296.748	227.444	162.376
12	" " 4 made into Coke	112.887	128.397	148.104	196.249	61.591	170.818	104.012	44.249	38.877
13	" " 4 Coke Product	73.782	75.657	87.812	121.378	35.984	105.684	68.167	29.958	23.827
14	% 13 is of 12	65.37	58.92	59.28	61.96	58.42	61.87	65.53	65.68	61.29
15		—	—	—	72.22	81.58	88.46	87.74	87.30	89.75
16	% 10 is of 4	—	—	—	72.22	81.58	88.46	87.74	87.30	89.75

ALS OF THE PROVINCE OF ALBERTA AND THAT PART OF B.C. EMBRACED IN "GRAPH 51".
 EMBRACED IN THE B.C. PORTION OF SAID GRAPH ARE BITUMINOUS, AND THOSE
 ALBERTA PORTION OF THE SAID GRAPH ARE PRACTICALLY BITUMINOUS AND ANTHRACITE.
 PRODUCTION IS INCLUDED UNDER THE HEAD BITUMINOUS AND IS EQUAL TO ABOUT 0.9 %
 VOLUME.

, 11, 27 & 31 IT WILL BE NOTICED THAT THERE ARE THREE COLUMNS IN WHICH
 CAUSED BY THE OFFICIAL REPORTS NOT CONTAINING SUCH DATA.

Calgary 12th July 1920

W. Pearce.

1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	Total	Average Annual
45.000	2,174,239	3,036,757	1,694,564	3,446,349	4,306,346	3,821,739	3,434,891	4,648,604	4,863,414	6,148,620	41,255,268	3,437,939
87.957	1,034,242	1,528,784	495,104	1,412,558	1,491,533	1,069,804	954,881	988,143	617,967	820,808	12,383,719	1,031,977
32.937	3,208,481	4,565,541	2,189,668	4,858,907	5,797,879	4,891,543	4,389,772	5,636,747	5,481,381	6,969,428	53,638,987	4,469,916
60.666	1,410,656	2,158,746	706,511	2,062,848	2,419,735	1,789,501	1,581,654	1,824,567	1,518,263	2,007,420	19,935,977	1,661,331
48.633	2,444,898	3,687,530	1,201,615	3,475,406	3,911,268	2,859,305	2,536,535	2,812,710	2,136,230	2,828,228	32,319,706	2,693,309
60.666	1,410,656	2,158,746	729,854	2,104,960	2,498,111	1,868,818	1,701,477	2,392,389	2,178,636	2,917,587	22,417,310	1,868,110
100.00	100.00	100.00	96.80	97.96	96.86	95.78	92.97	76.27	69.69	68.81	88.93	88.93
68.33	64.88	71.09	41.69	59.86	56.19	46.83	46.05	39.25	31.23	32.65	48.32	48.32
79.38	76.20	80.78	54.88	71.52	67.46	58.46	57.79	49.90	38.98	40.59	60.26	60.26
Data	available	1,558,948	576,312	1,824,878	2,122,987	1,562,057	1,419,076	1,409,900	1,296,157	1,376,682		
"	"	599,798	130,199	237,970	296,748	227,444	162,578	414,667	222,106	630,538		
28.397	148,104	196,249	61,591	170,818	104,012	44,249	38,878	67,105	51,905	53,462	1,177,657	98,138
75.657	67,812	121,578	35,984	105,684	68,167	29,058	23,826	41,950	31,630	32,661	727,789	60,649
58.92	59.28	61.96	58.42	61.87	65.53	65.68	61.29	62.52	60.94	61.10	61.80	61.80
		72.22	81.58	88.46	87.74	87.30	89.75	77.28	85.38	68.59		

28.397	148.104	196.249	61.591	237.970	296.748	227.444	162.578	414.667	222.106	630.538		
75.657	87.812	121.578	35.984	170.818	604.012	44.249	38.878	67.105	51.905	53.462	1.177.657	38.138
58.92	59.28	61.96	58.42	61.87	65.53	65.68	61.29	62.52	60.94	61.10	727.789	60.649
											61.80	61.80
		72.22	81.58	88.46	87.74	87.30	89.75	77.28	85.38	68.59		
		27.78	18.42	11.54	12.26	12.70	10.25	22.72	14.62	31.41		
25.017	152.775	204.487	106.556	258.406	321.899	156.905	92.505	84.348	82.653	86.959	2.016.918	168.078
298.849	395.796	841.218	135.081	617.951	599.935	436.109	414.422	433.388	252.949	383.285	5.135.361	427.947
22.78	14.77	13.33	21.52	18.30	21.58	14.67	9.69	8.54	13.38	10.59	16.29	16.29
30.25	38.27	55.04	27.29	43.75	40.23	40.77	43.40	43.86	40.94	46.69	41.47	41.47
403.480	409.320	374.661	117.215	444.534	485.270	398.117	384.710	394.230	217.786	264.664	4.255.601	354.633
263.183	274.549	241.580	75.377	296.053	320.370	262.727	269.449	270.805	144.440	185.001	2.834.860	256.238
65.22	67.08	64.48	64.30	66.60	66.02	66.00	70.05	68.70	66.33	69.90		
338.840	362.361	363.158	111.361	401.737	385.537	291.785	293.275	312.755	175.800	217.662	3.559.379	256.615
75.657	87.812	70.434	28.102	98.938	65.167	29.058	23.764	41.950	31.598	32.559	658.821	54.302
0	0	51.144	7.882	6.746	0	0	62	0	32	102		
531.877	557.424	570.910	178.806	615.352	589.282	442.366	423.588	461.335	269.691	318.126	5.433.258	452.771
23.66	22.80	15.48	14.88	17.71	15.07	15.47	16.70	16.40	12.62	11.25	16.81	16.81
60.611	76.357	92.202	39.902	92.292	94.002	75.085	67.157	76.214	64.568	65.677	853.605	71.134
Data	available	39.030	40.810	91.043	85.087	82.039	72.133	82.302	73.694	76.059		
6.13	7.38	6.03	8.06	6.53	6.30	7.02	7.03	7.71	10.45	8.01	6.89	6.89
		1.81	5.78	4.41	3.52	4.58	4.56	4.51	4.85	3.79		
23.866	548.571	1.045.705	341.637	876.757	912.834	593.014	506.928	517.746	335.612	470.244	7.243.700	603.642
96.008	1.172.767	1.715.830	531.986	1.547.041	2.130.703	1.359.133	1.297.846	1.574.439	1.296.157	1.773.370	16.528.218	1.577.352
53.02	53.03	68.42	69.00	62.06	61.20	55.44	53.08	52.39	54.32	57.29	58.50	58.50
86.94	83.13	79.49	75.30	75.00	88.06	75.96	82.07	86.30	85.40	88.24	82.90	82.90
19.874	1.721.338	2.761.535	873.623	2.423.798	3.043.537	1.952.147	1.804.774	2.092.185	1.631.769	2.243.614	23.771.356	1.960.993
31.183	232.328	229.541	73.958	238.606	264.841	199.196	241.900	232.303	130.203	165.508	2.397.473	199.789
38.298	45.344	9.778	1.419	56.288	56.701	60.830	27.549	38.502	14.270	19.493	435.549	36.295
06.840	320.140	299.975	102.060	337.544	330.008	228.254	265.664	274.253	161.801	198.067	3.056.294	254.691
87.84	84.63	95.03	98.12	80.60	82.66	75.82	89.78	85.78	90.18	89.38	84.58	84.58

11	" " 4 " outside of Alberta	"	"	"	559.798	130.199	237.970	296.748	227.444	162.57
12	" " 4 made into Coke	112.887	128.397	148.104	196.249	61.591	170.818	604.012	44.249	38.87
13	" " 4 Coke Product	73.782	75.657	87.812	121.578	35.984	105.684	68.167	29.058	23.82
14	% 13 is of 12	65.37	58.92	59.28	61.96	58.42	61.87	65.53	65.68	61.29
15										
16	% 10 is of 4	—	—	—	72.22	81.58	88.46	87.74	87.30	89.75
17	% 11 is of 4	—	—	—	27.78	18.42	11.54	12.26	12.70	10.25
18	Tonnage of 2 sold in Canada	244.408	225.017	152.775	204.457	106.556	258.406	321.899	156.905	92.30
19	" " 2 " outside of Canada	326.378	298.849	395.796	841.218	135.081	617.951	599.935	436.109	414.42
20	% 18 is of 2	24.89	22.78	14.77	13.33	21.52	18.30	21.58	14.67	9.69
21	% 19 is of 2	33.24	30.25	38.27	55.04	27.29	43.75	40.23	40.77	43.40
22	Tonnage of 2 used to make Coke	361.614	403.480	409.328	374.661	117.215	444.534	485.270	398.117	384.71
23	" " Coke produced	231.326	263.183	274.549	241.580	75.377	296.053	320.370	262.727	269.449
24	% 23 is of 22	63.97	65.22	67.08	64.48	64.30	66.60	66.02	66.00	70.05
25	Nº 13 + Nº 23	305.108	338.840	362.361	363.158	111.361	401.737	385.537	291.785	293.27
26	Tonnage of 13 sold in Canada	73.782	75.657	87.812	70.434	28.102	98.938	65.167	29.058	23.76
27	" " 13 " U.S.	0	0	0	51.144	7.982	6.746	0	0	6
28	Nº 12 + Nº 22	474.501	531.877	557.424	570.910	178.806	615.352	589.282	442.366	423.58
29	% 28 is of 5	21.80	23.66	22.80	15.48	14.88	17.71	15.07	13.47	16.70
30	Tonnage used in firing Boilers in 2	49.538	60.611	76.557	92.202	39.902	92.292	94.002	73.085	67.137
31	" " " " in 4	No	Data	available	39.030	40.810	91.043	85.087	82.039	72.133
32	% 30 is of 2	5.04	6.13	7.38	6.03	8.06	6.53	6.30	7.02	7.03
33	% 31 is of 4	—	—	—	1.81	5.78	4.41	3.52	4.58	4.56
34	Tonnage of 2 disposed of as Coal	570.786	523.866	548.571	1.045.705	341.637	876.757	912.834	593.014	506.92
35	" " 4 " " "	1.032.938	1.096.008	1.172.767	1.715.830	531.986	1.547.041	2.130.703	1.359.133	1.297.84
36	% 34 is of 2	58.12	53.02	53.03	68.42	69.00	62.06	61.20	55.44	53.08
37	% 35 is of 4	86.41	86.94	83.13	79.49	75.30	75.00	88.06	75.96	82.07
38	Nº 34 + Nº 35	1.603.724	1.619.874	1.721.338	2.761.535	873.623	2.423.798	3.043.537	1.932.147	1.804.77
39	Tonnage of 23 sold in Canada	157.906	231.183	232.328	229.541	73.958	238.606	264.841	199.196	241.90
40	" " " " U.S.	67.077	38.298	45.344	9.778	1.419	56.288	56.701	60.830	27.54
41	Nº 26 + Nº 39	231.688	306.840	320.140	299.975	102.060	337.544	330.008	228.234	265.66
42	% 39 is of 23	68.28	87.84	84.63	95.03	98.12	80.60	82.66	75.82	89.78



0661

LRA 1974-IGR-2100-002-022

#52

0661

ALBERTA DATA FROM CENSUS OF JUNE 1916

Constituency	Wheat bus.	Value per bus.	Total Value	Barley Bus.	Value per bus	Total Value	Oats bus	Value per bus	Total Value
		cents			cents			cents	
1. Battle River	7,989,140	81.4	6,503,160	1,155,261	43	496,762	10,535,543	30.3	3,192,270
2. Bow River	16,139,328		13,137,413	757,851		325,076	11,434,164		3,464,551
3. Calgary S.	1,003,336		816,716	933,690		401,487	7,253,947		2,197,946
4. Calgary W.	128,777		104,824	378,152		182,605	1,130,001		645,390
5. Edmonton E.	342,750		278,999	507,176		218,086	2,572,135		779,358
6. Edmonton W.	1,710,695		1,392,506	658,473		283,143	3,730,853		1,130,448
7. Lethbridge	8,495,543		6,915,372	1,136,706		488,784	3,473,620		1,052,507
8. Macleod	8,350,562		6,797,357	643,329		276,631	9,565,342		2,868,299
9. Medicine Hat	17,793,201		11,227,666	288,658		124,123	7,700,774		2,333,335
10. Red Deer	3,610,222		2,938,721	1,414,685		608,315	6,811,317		2,063,829
11. Strathcona	843,368		686,502	968,348		415,390	4,227,807		1,299,206
12. Victoria	4,435,387		3,610,405	1,977,315		850,245	9,349,933		2,853,030
Totals	66,842,309		54,409,641	10,819,634		44,652,447	78,845,436		23,890,169

Constituency	Other Grains bus.	Value per bus	Total Value	No. of Horses	Value each	Total Value	No. cattle	Value each	Total Value	No. sheep
		cents								
1. Battle River	29,411	88	25,882	65,649	100	6,564,900	138,716	42	5,826,072	15
2. Bow River	29,765		22,673	93,754		9,375,400	132,595		5,581,590	18
3. Calgary E.	64,613		56,859	31,430		3,142,000	71,613		3,007,746	10
4. Calgary W.	64,064		56,376	24,286		2,428,600	40,166		2,022,972	15
5. Edmonton E.	5,037		4,433	19,783		1,978,300	41,204		1,730,568	3
6. Edmonton W.	7,353		6,476	26,910		2,691,000	54,607		2,293,410	6
7. Lethbridge	10,544		17,109	41,085		4,108,500	65,213		2,738,946	120
8. Macleod	31,058		27,351	63,696		6,169,600	145,161		6,096,762	13
9. Medicine Hat	29,717		26,151	84,939		8,493,500	98,175		3,787,350	28
10. Red Deer	56,802		49,986	71,529		7,152,900	143,338		6,020,196	27
11. Strathcona	36,977		32,540	28,526		2,852,600	66,506		2,809,296	1
12. Victoria	52,086		46,540	68,274		6,827,400	155,463		6,529,446	14
Totals	423,333		372,446	624,931		62,493,100	1,153,437		44,444,354	289

Constituency	No. of pigs	Value each	Total Value	Annual Output	Total Popul'n	Rural Popul'n	Per cent total	No. acres subd. & avail-able for set-tlement.	Value per acre of output
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ALBERTA - DATA FROM CENSUS OF JUNE 1916

Value	Barley Bus.	Value per bus	Total Value	Oats Bus	Value per bus	Total Value	Flax Bus	Value per bus	Total Value
		cents			cents			cents	
1,160	1,155,261	43	496,762	10,535,543	30.3	3,192,270	32,908	152	50,020
413	757,851		325,876	11,434,164		3,464,551	110,083		167,326
716	933,690		401,487	7,253,947		2,197,946	10,505		15,068
824	378,152		162,605	2,130,001		645,390	280		426
600	507,176		218,086	2,572,135		779,358	93		141
506	658,473		283,143	3,730,853		1,130,448	270		410
372	1,136,706		488,784	3,473,620		1,052,507	159,510		242,555
357	643,329		276,631	9,565,342		2,898,299	2,350		3,572
606	288,658		124,123	7,700,774		2,333,335	330,445		502,276
721	1,414,685		608,315	6,811,317		2,063,829	1,648		2,505
502	968,348		416,390	4,287,807		1,299,206	68		103
405	1,977,315		650,245	9,349,933		2,853,030	5,069		7,705
641	10,819,634		44,652,447	78,845,436		23,890,169	653,449		992,917

Value	No. of Horses	Value each	Total Value	No. cattle	Value each	Total Value	No. Sheep	Value each	Total Value
82	65,649	\$100	6,564,900	138,716	442	5,826,072	18,087	18.50	153,740
73	93,754		9,375,400	132,895		5,581,590	18,479		157,071
50	31,430		3,143,000	71,613		3,007,746	10,746		91,341
76	24,286		2,428,600	48,166		2,022,972	15,672		133,216
33	19,783		1,978,300	41,204		1,730,568	3,644		30,974
76	26,910		2,691,000	54,605		2,293,410	6,004		51,034
99	41,085		4,108,500	65,213		2,738,946	120,223		1,021,296
51	63,606		6,369,600	145,161		6,096,762	13,210		122,255
51	84,932		8,493,200	90,175		3,787,350	28,927		245,280
6	71,529		7,152,900	143,338		6,020,196	27,987		237,049
0	28,596		2,859,600	60,578		2,809,296	14,624		107,304
10	68,274		6,827,400	155,463		6,549,446	14,023		119,195
6	624,931		62,493,100	1,153,437		48,444,354	289,626		2,461,225

Value Annual Output	Total Rural	Per capita	No. acres subd. & avail- able for set- tlement.	Value per acre of output	Miles of railway	Value per mile of output
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40	28,406	68,274	2,859,600	66,578	2,809,296	14,624	107,304
			6,827,400	155,463	6,549,446	14,023	119,195
46	624,931	62,493,100	1,153,437	44,444,354	289,626	42,462,825	
Value Annual Output	Total Pop'n	Rural Pop'n	Per cent Total	No. acres subd. & avail-able for set-tlement.	Value per acre of output	Miles of railway	Value per mile of output
44	14,062,702	40,548	36,462	346	325	7,558,533	\$1.86
406	21,408,347	34,357	30,205	645	712	7,018,670	3.00
43	5,386,500	40,555	2,003	134	1,117	1,361,420	3.96
17	2,202,876	40,323	10,424	57	116	1,290,060	1.77
25	2,562,301	50,038	27,900	51	91	5,564,338	.45
16	4,506,615	55,313	31,810	81	142	15,080,309	.30
34	11,197,794	31,563	15,574	355	710	3,497,590	3.20
78	13,652,909	33,885	24,465	407	558	3,192,440	4.23
22	17,669,061	40,341	25,264	438	625	7,981,090	2.21
63	9,721,457	41,654	33,156	233	293	4,741,710	2.05
05	4,355,781	38,940	21,552	112	202	2,605,590	1.67
03	11,776,006	40,332	43,238	230	272	3,990,550	2.95
46	118,685,538	496,527	314,992	240	377	63,832,354	\$1.86
						467.37	\$2,560.09

1916 gives values as follows:- Wheat 90.4 cents, Oats 35.5 cents, Barley 50.6 cents, Flax 160.8 cents, Other

ts, Ft. William will average 15 cents per hundred less than from Alberta. Applying that, makes in Alberta:

43 cents, Flax 152 cents, Other Grains averaging then at 50 lbs. per bushel makes 38.8, say 68 cents per bushel

ses at \$155. Cattle \$42. Sheep \$8.46, Hogs \$10.92. I think the value placed on horses is very much too high

lian ponies and small horses, consequently have placed \$100.00 on each

which 85% are old working animals, so have not included them. This is not a male breeding country

horses and cattle, 50% of sheep, and 80% of pigs could be sold each year and not deplete the herd. I have

g kinds of grain, and those percentages of the animals together, and put the result under the column "Annual Output"

good many things in the way of farm output which are not accounted for, as dairy produce, poultry, eggs, etc.

crop, very great in value but as the greater part of that is consumed on the farm, only a very small percentage

The exportation of hay from this province has not averaged very high for some years past, - probably sufficient

ly not high enough to add very appreciably to the annual output column

Calgary 13 June
1917

W. H. P. A. C.

11. Strathcona	36,977	32,540	28,506	2,240,600	88,000	14,000
12. Victoria	52,886	46,540	68,274	6,027,400	155,463	6,529,446

Totals	423,233	\$372,446	624,931	\$62,493,100	1,153,437	\$48,444,354	289
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Constituency	No. of pigs	Value one	Total Value	Annual Output	Total Population	Rural Population	Per cent Total	No. acres subd. & avail- able for set- tlement.	Value per acre of output
1. Battle River	70,454	\$11	\$774,994	\$14,064,702	40,548	36,452	345	7,558,588	\$1.86
2. Bow River	63,246		703,106	21,403,347	34,385	30,205	645	7,018,670	3.00
3. Calgary A.	36,053		306,583	5,380,500	40,055	2,003	134	1,361,420	3.96
4. Calgary W.	16,347		179,617	2,202,876	40,323	10,426	57	1,290,060	1.77
5. Edmonton E.	38,415		423,225	2,562,301	50,038	27,000	51	5,564,338	.15
6. Edmonton W.	47,056		527,716	4,506,615	55,313	31,519	81	15,080,309	.30
7. Lethbridge	20,394		323,332	12,197,794	31,563	18,724	255	3,497,590	3.20
8. Macleod	30,008		439,978	13,652,909	33,885	24,465	427	3,192,440	4.28
9. Medicine Hat	20,802		327,522	17,669,061	40,341	26,254	436	7,961,090	2.21
10. Red Deer	80,133		881,463	9,721,457	41,654	33,156	237	4,741,710	2.05
11. Strathcona	51,155		562,705	4,355,781	38,940	21,552	112	2,605,590	1.67
12. Victoria	116,973		1,286,703	11,776,096	46,332	43,238	230	3,990,550	2.95
Totals	620,686		\$6,827,546	\$118,605,538	496,527	314,992	240	33,832,354	\$1.86

The Census for Manitoba for 1916 gives values as follows:- Wheat 90.4 cents, Oats 35.3 cents, Barley 50.0 cents, Grains 96.3 cents.

Freight from Manitoba points, Ft. William will average 15 cents per hundred less than from Alberta. Applying this to the values for Manitoba gives:- Wheat 81.4 cents, Oats 30.3 cents, Barley 43 cents, Flax 152 cents, Other Grains averaging them at 50 lbs. per bushel makes 152 cents.

The said census places Horses at \$155. Cattle \$42. Sheep \$8.46, Hogs \$10.92. I think the value placed for Alberta, considering the number of Indian ponies and small horses, consequently have placed \$100.00 on each. Mules Only 4971 in all, of which 85% are old working animals, so have not included them. This is not a fair estimate. Have estimated that 25% of horses and cattle, 50% of sheep, and 80% of pigs could be sold each year and therefore added the value of the different kinds of grain, and those percentages of the animals together, and put the result in the annual output column. This leaves, of course, a good many things in the way of farm output which are not accounted for, as dairies, etc. It also leaves out the hay crop, very great in value but as the greater part of that is consumed on the farm should be considered as annual output. The exportation of hay from this province has not averaged very high for some years, and is not high to warrant being considered but probably not high enough to add very appreciably to the annual output column.

Calgary 13th June 1917





ALBERTA DATA FROM CENSUS OF JUNE 1914

Constituency	Wheat bus.	Value per bus.	Total Value	Barley Bus.	Value per bus	Total Value	Oats bus	Value per bus	Total Value
		cents			cents			cents	
1. Battle River	7,989,140	61.4	\$ 6,503,160	1,155,261	43	496,762	10,535,543	30.3	\$ 3,192,270
2. Bow River	16,139,328		13,137,413	757,851		325,876	11,434,164		3,464,551
3. Calgary E.	1,003,336		816,716	933,690		401,487	7,253,947		2,197,946
4. Calgary W.	128,777		104,824	378,152		162,605	2,130,001		645,390
5. Edmonton E.	342,750		278,999	507,176		218,086	2,572,135		779,358
6. Edmonton W.	1,710,695		1,392,506	658,473		283,143	3,730,853		1,130,448
7. Lethbridge	8,495,543		6,915,372	1,136,706		488,784	3,473,620		1,052,507
8. Macleod	8,350,562		6,797,357	643,349		276,631	9,565,342		2,898,299
9. Medicine Hat	13,793,201		11,227,666	288,650		124,123	7,700,774		2,333,335
10. Red Deer	3,610,222		2,030,721	1,414,685		608,315	6,811,317		2,063,829
11. Strathcona	843,368		686,502	968,348		416,390	4,287,807		1,299,206
12. Victoria	4,435,387		3,610,405	1,977,315		650,245	9,349,933		2,853,030
Totals	66,842,309		\$54,409,641	10,819,634		\$4,652,447	78,845,436		\$23,890,169

Constituency	Other Grains bus.	Value per bus	Total Value	No. of Horses	Value each	Total Value	No. cattle	Value each	Total Value	No. sheep
		cents			\$100					
1. Battle River	29,411	88	\$ 25,882	65,649		\$6,564,900	138,716	42	\$5,026,072	18,
2. Bow River	25,765		22,673	93,754		9,375,400	132,695		5,581,590	18,
3. Calgary E.	64,613		56,859	31,430		3,143,000	71,613		3,007,746	10,
4. Calgary W.	64,064		56,376	24,286		2,428,600	40,166		2,022,972	15,
5. Edmonton E.	5,037		4,433	19,783		1,978,300	41,204		1,730,568	13,
6. Edmonton W.	7,359		6,476	26,910		2,691,000	54,607		2,293,410	6,
7. Lethbridge	19,544		17,199	41,085		4,108,500	65,213		2,738,946	120,
8. Macleod	31,058		27,331	63,696		6,869,600	147,161		6,096,762	13,
9. Medicine Hat	29,717		26,151	84,939		8,403,900	90,175		3,787,350	28,
10. Red Deer	56,802		49,086	71,529		7,152,900	143,338		6,020,196	27,
11. Strathcona	36,977		32,540	28,596		2,859,600	63,098		2,809,296	14,
12. Victoria	52,886		46,540	68,274		6,827,400	155,463		6,549,446	14,
Totals	423,433		\$372,446	624,931		\$62,493,100	1,153,437		\$48,444,354	289,

Constituency	No. of pigs	Value each	Total Value	Annual Output	Total	Rural	per acre	No. acres subd. & avail- able for set- tlement.	Value per acre of output
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ALBERTA CENSUS OF JUNE 1916

Value	Barley Bus.	Value per bus	Total Value	Oats bus	Value per bus	Total Value	Flax bus	Value per bus	Total Value
		cents			cents			cents	
160	1,155,261	43	496,762	10,535,513	30.3	3,192,270	32,908	152	50,010
413	757,851		325,876	11,434,164		3,464,551	110,023		167,326
716	933,690		401,487	7,253,947		2,197,946	10,505		15,968
824	378,152		162,605	2,130,001		645,390	280		426
980	507,176		218,086	2,572,135		779,358	93		141
506	658,473		283,143	3,730,853		1,130,448	270		410
372	1,136,706		488,784	3,473,620		1,052,507	150,510		242,555
357	643,329		276,631	9,565,342		2,868,209	2,350		3,572
666	288,688		124,123	7,700,774		2,333,335	330,445		502,276
721	1,414,685		608,315	6,811,317		2,063,829	1,648		2,505
502	968,348		416,390	4,287,807		1,299,206	68		103
405	1,977,315		850,245	9,349,933		2,833,030	5,069		7,705
641	10,819,634		4,652,447	78,845,436		23,890,169	653,229		992,917

Value	No. of Horses	Value each	Total Value	No. cattle	Value each	Total Value	No. Sheep	Value each	Total Value
82	65,649	\$100	\$6,564,900	138,716	\$42	\$5,826,072	18,087	\$8.50	\$153,740
73	93,754		9,375,400	132,895		5,581,590	18,479		157,071
59	31,430		3,143,000	71,613		3,007,746	10,746		91,341
76	24,286		2,428,600	40,166		2,022,672	15,672		133,216
33	19,783		1,978,300	41,204		1,730,568	3,644		30,974
76	26,910		2,691,000	54,605		2,293,410	6,004		51,034
99	41,085		4,108,500	65,213		2,738,946	120,223		1,021,896
31	68,696		6,869,600	145,161		6,095,762	13,210		112,205
61	84,939		8,493,900	90,175		3,787,350	28,927		245,880
66	71,522		7,152,900	143,338		6,020,196	27,987		237,809
10	28,596		2,859,600	68,888		2,809,296	12,624		107,304
0	68,274		6,827,400	155,463		6,549,446	14,823		119,195
6	624,031		62,403,100	1,153,437		48,444,354	269,626		2,461,825

Value Annual Output	Total Rural Popul'n	per acre	No. acres avail- able for set- tlement.	Value per acre of output	Miles of railway	Value per mile of output
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71,520	7,152,000	143,370	6,020,196	27,087	237,869
28,596	2,859,600	66,558	2,809,296	12,624	107,304
68,274	6,827,400	155,463	6,549,446	14,023	119,195
624,931	62,493,100	1,153,437	41,444,354	289,626	2,461,815

Value Annual Output	Total Population	Rural Population	Per cent of total	No. acres subd. & available for settlement.	Value per acre of output	Miles of railway	Value per mile of output
14,062,702	40,548	36,401	346	7,558,533	51.86	302.3	46,565.47
21,498,347	34,395	30,205	625	7,018,670	3.00	478	44,956.01
5,380,500	40,005	2,803	134	1,361,420	3.96	207.1	26,024.14
2,202,876	40,323	19,424	57	1,290,060	1.77	177.9	12,880.56
2,562,301	50,030	27,000	71	5,504,338	.45	202.7	2,754.04
4,506,615	55,313	31,119	81	15,000,309	.30	103.1	4,005.41
11,197,794	31,563	15,574	355	3,497,590	3.20	45	11,752.65
13,652,900	33,885	24,465	407	3,192,440	4.23	247.5	55,163.27
17,669,061	40,341	20,264	438	7,981,090	2.21	282.0	62,356.24
9,721,457	41,654	35,176	233	4,741,710	2.05	512.37	18,753.90
4,355,701	38,940	21,552	112	2,605,590	1.67	133.4	32,651.03
11,776,096	40,332	43,238	230	3,990,550	2.95	456.6	53,790.84
118,685,538	496,527	314,992	240	63,832,354	51.86	467.37	26,568.99

1916 gives values as follows:- Wheat 90.4 cents, Oats 35.3 cents, Barley 50.6 cents, Flax 160.8 cents, Other grains, Ft. William will average 15 cents per hundred less than from Alberta. Applying that, makes in Alberta: 43 cents, Flax 152 cents, Other Grains averaging them at 50 lbs. per bushel makes 80 ¢, say 80 cents per bushel as at \$155. Cattle \$42. Sheep \$8.45, Hogs \$10.92. I think the value placed on horses is very much too high. Canadian ponies and small horses, consequently have placed \$100.00 on each which 85% are old working animals, so have not included them. This is not a male breeding country. Horses and cattle, 50% of sheep, and 80% of pigs could be sold each year and not deplete the herd. I have kinds of grain, and those percentages of the animals together, and put the result under the column "Annual Output". Good many things in the way of farm output which are not accounted for, as dairy produce, poultry, eggs, etc. Crop, very great in value but as the greater part of that is consumed on the farm, only a very small percentage. The exportation of hay from this province has not averaged very high for some years past, - probably sufficiently high not high enough to add very appreciably to the annual output column.

Calgary 13th June 1917
W. Pearce

1. Red Deer	56,802	43,986	71,529	7,152,900	143,338	6,020,196	27
11. Strathcona	36,977	32,540	28,506	2,850,600	66,018	2,809,296	14
12. Victoria	52,686	46,540	68,274	6,827,400	155,463	6,549,446	14
Totals	423,433	372,446	624,931	62,493,100	1,153,437	64,444,354	289

Constituency	No. of pigs	Value each	Total Value	Annual Output	Total Popul'n	Rural Popul'n	Per cent	No. acres subd. & available for settlement.	Value per acre of output	
1. Battle River	70,454	\$11	\$774,994	14,062,792	49,648	36,492	346	385	7,558,588	\$1.86
2. Bow River	63,946		703,406	21,493,347	34,315	29,215	645	712	7,018,670	3.00
3. Calgary E.	36,053		396,583	5,386,599	40,095	2,893	134	1,863	1,361,420	3.96
4. Calgary W.	16,347		179,617	2,202,876	40,323	19,426	57	118	1,290,060	1.77
5. Edmonton E.	38,475		423,225	2,562,301	50,038	27,908	51	92	5,564,338	.40
6. Edmonton W.	47,956		527,716	4,506,615	55,313	31,819	81	142	15,000,309	.30
7. Lethbridge	29,394		323,334	12,197,794	31,563	15,574	355	719	3,497,590	3.20
8. Macleod	39,998		439,978	13,652,909	33,885	24,465	403	558	3,192,440	4.23
9. Medicine Hat	29,802		327,822	17,669,061	40,341	28,264	438	625	7,981,090	2.21
10. Red Deer	80,133		881,463	9,721,457	41,654	33,156	233	293	4,741,710	2.05
11. Strathcona	51,155		562,705	4,355,781	38,940	21,552	112	201	2,605,590	1.67
12. Victoria	116,973		1,286,703	11,776,096	40,332	43,238	230	274	3,990,550	2.95
Totals	620,686		\$6,827,546	118,685,538	496,527	314,992	240	377	63,832,354	\$1.86

The Census for Manitoba for 1916 gives values as follows:- Wheat 80.4 cents, Oats 37 3 cents, Barley 50 cents, Grains 96.3 cents.

Freight from Manitoba points, Ft. William will average 15 cents per hundred less than from Alberta. Applied to Wheat 81.4 cents, Oats 30.3 cents, Barley 43 cents, Flax 152 cents, Other Grains averaging them at 50 lbs. per bushel makes the said census places Horses at \$155. Cattle \$42. Sheep \$8.45, Hogs \$10.92. I think the value placed for Alberta, considering the number of Indian ponies and small horses, consequently have placed \$100.00 on each.

Mules Only 4971 in all, of which 25% are old working animals, so have not included them. This is not a mistake. Have estimated that 25% of horses and cattle, 50% of sheep, and 80% of pigs could be sold each year and not therefore added the value of the different kinds of grain, and those percentages of the animals together, and put the result This leaves, of course, a good many things in the way of farm output which are not accounted for, as dairies. It also leaves out the hay crop, very great in value but as the greater part of that is consumed on the farm should be considered as annual output. The exportation of hay from this province has not averaged very high for some high to warrant being considered but probably not high enough to add very appreciably to the annual output column.

Calgary 13th June 1917









ALBERTA DATA FROM CENSUS OF JUNE 1916

Constituency	Wheat bus.	Value per bus.	Total Value	Barley Bus.	Value per bus	Total Value	Oats bus	Value per bus	Total Value
		cents			cents			cents	
1. Battle River	7,989,140	81.4	\$ 6,503,160	1,155,261	43	\$ 496,762	10,535,543	30.3	\$ 3,192,270
2. Bow River	16,139,328		13,137,413	757,851		325,876	11,434,164		3,464,551
3. Calgary E.	1,003,336		816,716	933,690		401,487	7,253,947		2,197,946
4. Calgary W.	128,777		104,824	378,152		162,605	2,130,001		645,390
5. Edmonton E.	342,750		278,990	507,176		218,086	2,572,135		779,358
6. Edmonton W.	1,710,695		1,392,506	658,473		283,143	3,730,853		1,130,448
7. Lethbridge	8,495,543		6,915,372	1,136,706		488,784	3,473,620		1,052,507
8. Macleod	8,350,562		6,797,357	643,329		276,631	9,565,342		2,898,299
9. Medicine Hat	17,793,201		11,227,666	288,658		124,123	7,700,774		2,333,335
10. Red Deer	3,610,222		2,038,721	1,414,685		608,315	6,811,317		2,063,829
11. Strathcona	843,360		686,502	968,348		416,390	4,287,807		1,299,206
12. Victoria	4,435,387		3,610,405	1,977,315		850,245	9,349,933		2,833,030
Totals	66,842,309		\$54,409,641	10,819,634		\$4,652,447	78,845,436		\$23,890,169

Constituency	Other Grains bus.	Value per bus	Total Value	No. of Horses	Value each	Total Value	No. cattle	Value each	Total Value	No. S.
		cents								
1. Battle River	29,411	88	\$ 25,882	65,649	\$100	\$6,564,900	138,716	\$42	\$5,826,072	18.
2. Bow River	26,765		22,673	93,754		9,375,400	132,895		5,581,590	18.
3. Calgary E.	64,613		56,859	31,430		3,143,000	71,613		3,007,746	10.
4. Calgary W.	64,064		56,376	24,286		2,428,600	48,166		2,022,972	15.
5. Edmonton E.	5,037		4,433	19,783		1,978,300	41,204		1,730,568	3.
6. Edmonton W.	7,352		6,476	26,910		2,691,000	54,607		2,293,410	6.
7. Lethbridge	10,544		17,199	41,085		4,108,500	65,413		2,738,946	120.
8. Macleod	21,058		27,351	63,696		6,869,600	145,161		6,096,762	13.
9. Medicine Hat	29,717		26,151	84,939		8,493,900	90,175		3,757,350	28.
10. Red Deer	56,802		49,086	71,529		7,152,900	143,338		6,020,196	27.
11. Strathcona	35,977		32,520	28,596		2,859,600	66,598		2,809,296	1.
12. Victoria	52,656		46,540	68,274		6,827,400	155,463		6,549,446	14.
Totals	423,433		\$372,446	624,931		\$62,493,100	1,153,437		\$48,444,354	289.

Constituency	No. of pigs	Value each	Total Value	Annual Output	Total Rural Popul'n.	Rural Popul'n.	Per cent Total	No. acres subd. & avail-able for set-tlement.	Value per acre of output
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Value	Barley Bus.	Value per bus	Total Value	Oats bus	Value per bus	Total Value	Flax bus	Value per bus	Total Value
		cents			cents			cents	
160	1,155,261	43	496,762	10,535,543	30.3	3,192,270	32,908	152	50,040
413	757,851		325,876	11,434,164		3,464,551	110,083		167,346
716	933,690		401,487	7,253,947		2,197,946	10,505		15,968
824	378,152		162,605	2,130,001		645,390	280		426
999	507,176		218,026	2,572,135		779,358	93		141
506	658,473		283,143	3,730,853		1,130,448	270		410
372	1,136,706		488,784	3,473,620		1,052,507	150,510		242,555
357	643,349		276,631	9,565,342		2,868,299	2,350		3,572
666	266,658		124,123	7,700,774		2,333,335	330,445		502,276
721	1,414,685		608,315	6,811,317		2,063,829	1,648		2,505
502	968,348		416,390	4,287,807		1,299,206	68		103
405	1,977,315		850,245	9,349,933		2,853,030	5,069		7,795
641	10,819,834		4,652,447	78,845,436		23,890,169	653,229		992,917

Value	No. of Horses	Value each	Total Value	No. cattle	Value each	Total Value	No. Sheep	Value each	Total Value
2	65,649	\$100	\$6,564,900	138,716	\$42	\$5,826,072	18,087	\$8.50	153,740
3	93,754		9,375,400	132,895		5,581,590	18,479		157,071
9	31,430		3,143,000	71,613		3,007,746	10,746		91,341
6	24,286		2,428,600	40,166		2,022,972	15,672		133,216
3	19,783		1,978,300	41,204		1,730,568	3,644		30,974
6	26,910		2,691,000	54,695		2,293,410	6,004		51,034
9	41,095		4,109,500	65,213		2,738,946	120,223		1,021,086
1	68,696		6,869,600	145,161		6,096,762	13,210		112,205
1	84,939		8,493,900	90,175		3,787,350	23,927		245,680
6	71,529		7,152,900	143,338		6,020,196	27,987		237,839
0	26,596		2,659,600	66,828		2,809,296	12,624		107,304
0	68,274		6,827,400	155,463		6,549,446	14,023		119,195
624,931			62,493,100	1,153,437		48,444,354	289,626		2,461,825

Value Annual Output	Total Rural	Per cap	No. acres subd. & avail- able for set- tlement.	Value per acre of output	Miles of railway	Value per mile of output
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71,529	7,152,900	143,338	3,707,350	28,627	245,000
28,596	2,859,600	66,888	6,020,196	27,687	237,669
68,274	6,827,400	155,463	2,809,296	14,624	107,304
			6,529,446	14,023	119,195
446	624,931	62,493,100	1,153,437	416,444,354	289,626
					2,461,825

Value Annual Output	Total Population	Rural Population	Per cent of total	No. acres subd. & available for settlement.	Value per acre of output	Miles of railway	Value per mile of output
14,062,702	40,648	36,492	345	7,558,583	1.86	302.3	46,565.23
21,408,347	34,313	30,205	625	7,018,670	3.06	478.2	44,956.01
5,386,599	40,085	2,803	134	1,361,420	3.96	207.1	26,024.14
2,202,876	40,323	10,446	57	1,290,060	1.77	177.9	12,880.56
2,562,301	50,038	27,508	51	5,564,338	.46	282.7	2,754.02
4,506,615	55,313	31,119	81	15,000,309	.30	103.1	4,005.41
11,197,794	31,563	17,574	355	3,497,590	3.20	260.0	11,751.65
13,552,909	35,885	24,605	403	3,192,440	4.23	247.3	55,163.27
17,669,061	40,341	20,264	438	7,981,090	2.21	202.0	62,656.24
9,721,457	41,654	33,156	233	4,741,710	2.05	318.37	15,753.60
4,355,781	38,940	21,552	112	2,605,590	1.67	133.4	32,750.03
11,776,096	40,332	43,238	230	3,990,550	2.95	456.6	25,790.54
446	118,665,538	496,527	314,992	240	377	63,832,354	1.86
						457.37	46,568.59

1916 gives values as follows:- Wheat 90.4 cents, Oats 35 3 cents, Barley 50.6 cents, Flax 160 E cents, Other

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Calgary 13th June 1917

W. Pearce

1. Head Deer	56,802	49,086	71,529	7,152,900	143,338	6,020,196	27
11. Strathcona	36,977	32,500	28,596	2,859,600	66,088	2,809,296	14
12. Victoria	52,006	46,940	68,274	6,827,400	155,463	6,549,446	14
Totals	425,233	372,446	624,931	62,493,100	1,153,437	648,444,354	289

Constituency	No. of pigs	Value each	Total Value	Annual Output	Total Popul'n	Rural Popul'n	Per cent Total Rural	No. acres subd. & avail-able for set-tlement.	Value per acre of output
1. Battle River	70,454	\$11	\$774,994	14,062,702	40,648	36,442	346	7,558,538	52.86
2. Bow River	63,946		703,406	21,403,347	34,317	30,215	625	7,018,670	3.30
3. Calgary A.	36,053		396,583	5,380,500	40,005	2,803	134	1,361,420	3.96
4. Calgary W.	16,347		179,817	2,202,876	40,323	10,446	57	1,290,060	1.77
5. Edmonton E.	38,475		423,225	2,562,301	50,030	27,906	51	5,564,338	.40
6. Edmonton W.	47,056		521,716	4,806,415	55,313	31,119	81	15,080,309	.30
7. Lethbridge	29,394		323,334	11,197,794	31,563	17,574	355	3,497,590	3.20
8. Macleod	39,998		439,978	13,452,909	33,885	24,465	403	3,192,440	4.23
9. Medicine Hat	29,802		327,822	17,669,081	40,341	26,264	438	7,981,090	2.21
10. Red Deer	80,133		881,463	9,721,457	41,654	33,156	233	4,741,710	2.05
11. Strathcona	51,155		562,705	4,355,781	38,940	21,552	112	2,605,590	1.67
12. Victoria	116,973		1,286,703	11,776,096	49,332	43,238	230	3,990,550	2.95
Totals	620,686		6,827,546	118,685,538	496,527	314,992	240	63,832,354	21.86

The Census for Manitoba for 1916 gives values as follows:- Wheat 50.4 cents, Oats 35.3 cents, Barley 50.0 cents, Grains 96.3 cents.

Freight from Manitoba points, Ft. William will average 15 cents per hundred less than from Alberta. Applied to wheat 81.4 cents, Oats 30.3 cents, Barley 43 cents, Flax 152 cents, Other Grains averaging them at 50 lbs. per bushel makes 40.0 cents.

The said census places Horses at \$155. Cattle \$42. Sheep \$8.46, Hogs \$10.92. I think the value placed for Alberta, considering the number of Indian ponies and small horses, consequently have placed \$100.00 on each.

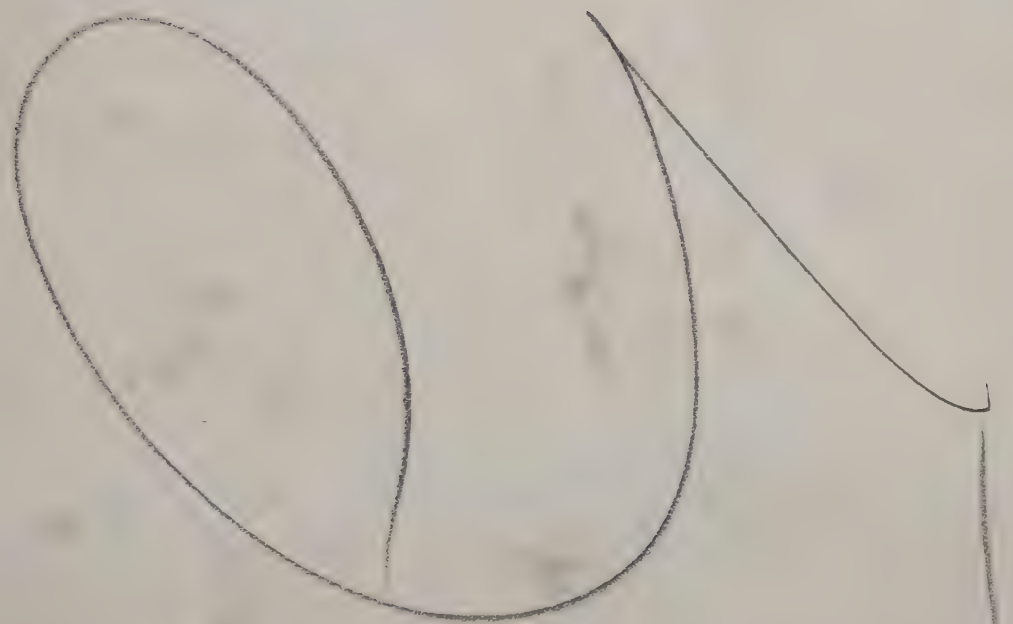
Mules Only 4971 in all, of which 85% are old working animals, so have not included them. This is not a very large number.

Have estimated that 25% of horses and cattle, 50% of sheep, and 80% of pigs could be sold each year and no doubt the value of the different kinds of grain, and those percentages of the animals together, and put the result in the annual output column.

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It also leaves out the hay crop, very great in value but as the greater part of that is consumed on the farm should be considered as annual output. The exportation of hay from this province has not averaged very high for some years, and is not high to warrant being considered but probably not high enough to add very appreciably to the annual output column.

Calgary 13th June 1917



Albert

from
1916

WAA-1974-16A-2100-002-023

~~Albion Data from
Russia 1916~~

BITUMINOUS
Total Output
Selling to Railways

TOTAL OUTPUT - 6,894,199 Tons	
Railways Bituminous - 3,416,503 Tons	
Alta	246,250 Tons
B.C.	66,478 Tons
Sask.	171,200 Tons
Man.	149,500 Tons
Ont.	115,415 Tons

C.P.R. DEPARTMENT OF COLONIZATION & DEVELOPMENT COAL OUTPUT OF ALBERTA -

AUTHORITY FOR PRODUCTION, DISPOSITION OF, WHEN & WHERE PRODUCED :- MINES BRANCH REPORT
GRAPH No. 59. CALGARY, APRIL 23rd 1921.

C - McGill University Investigations by Porter, Dürley, No. 53 Vol. 15.
D - Mines Branch No. 391 1915.
E - Memoir 55 No. 44 Geo. Survey, D.B. Dowling, 1914.
G - Various Sources, believed by Compiler to be fairly correct.
M - Moisture.
V - Volatile Combustible.
F - Fixed Carbon.
A - Ash.
B.T.U. - British Thermal Units.

NOTE: It is probable, that because of the system adopted in securing & forwarding samples to where the Analysis is made, from content should be added thereto. The higher the said Moisture content, the greater the percentage that should be added. In the case of the Ash from 2% to 5% should be added. When this is done then a correction will be of Volatile & Fixed Carbon, said correction to be proportional to the amounts given in the Analysis.
To illustrate: - Take No. 24, assuming an addition of 23% for Moisture & 5% for Ash then the correct Analysis would be:

NOTE: - See Note below re Anthracite sold to Rlys

BITUMINOUS Tonnage Sold in (exclusive of that sold to Railways)						
Field	Alta	B.C.	Sask.	Man.	Ont.	U.S.
1. MILE RIVER	151,856	44,850	102,000	101,434	130	112,403
2. MAGRATH	54,453	1,571	18,868	13,804	0	0
3. PINCHER CREEK	7,077	18,762	11,251	1,934	0	0
4. LETHBRIDGE	18,710	1,824	9,118	1,536	0	0
5. BROOKS	5,986	1,445	8,500	13,794	0	0
6. HIGH RIVER	7,491	0	0	0	100	0

DOMESTIC & LIGNITE (6)									
ANALYSES PERCENTAGES									
Field	M	V	F	A	B.T.U.	Moisture	Volatile	Fixed	Ash
1. MILE RIVER	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
2. MAGRATH	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
3. PINCHER CREEK	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
4. LETHBRIDGE	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
5. BROOKS	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
6. HIGH RIVER	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
7. DRUMHELLER	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
8. HANNA	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
9. CARBON	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
10. THREE HILLS	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
11. DE VALLEY	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
12. THORNHILL	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
13. LACOMBE	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
14. BATTLE RIVER	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
15. CAMROSE	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
16. WILFRED	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
17. HILVERDALE	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
18. SUTTON	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
19. MARAC	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
20. BROOKS	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
21. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
22. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
23. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
24. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
25. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
26. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
27. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
28. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
29. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
30. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
31. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
32. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
33. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
34. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
35. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
36. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
37. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
38. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
39. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
40. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
41. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
42. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
43. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
44. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
45. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
46. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
47. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
48. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
49. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
50. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
51. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
52. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
53. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
54. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
55. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
56. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
57. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
58. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
59. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
60. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
61. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
62. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
63. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
64. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
65. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
66. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
67. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
68. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
69. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
70. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
71. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
72. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
73. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
74. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
75. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
76. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
77. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
78. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
79. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
80. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
81. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
82. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
83. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
84. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
85. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
86. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
87. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
88. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
89. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
90. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
91. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
92. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
93. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
94. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
95. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
96. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
97. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
98. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
99. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25
100. BRANFORD	3.8	38.04	46.75	11.35	11,880	6.250	10.75	20.75	2.25

BITUMINOUS (7)										BITUMINOUS (10)										BITUMINOUS (11)											
ANALYSES PERCENTAGES										ANALYSES PERCENTAGES										ANALYSES PERCENTAGES											
Field	M	V	F	A	B.T.U.	Moisture	Volatile	Fixed	Ash	Field	M	V	F	A	B.T.U.	Moisture	Volatile	Fixed	Ash	Field	M	V	F	A	B.T.U.	Moisture	Volatile	Fixed	Ash		
1. CROW'S BEAT PASS	3.8	38.04	1.4	1.4	12,100	0.1	1.2	98.7	0.1	2	13,886-7.4%	45,229-2.1%	100,000-5.9%	10,638-5.8%	100-41%	11,446-6.36%	16,779-8.31%	16,627-8.21%	16,687-5.91%	7,887-4.99%	14,883-7.99%	16,789-8.94%	10,557-8.47%	100,000-5.9%	10,638-5.8%	100-41%	11,446-6.36%	16,779-8.31%	16,627-8.21%	16,687-5.91%	7,887-4.99%
2. IN ANIMORE	1.5	15.41	0.4	1.3	11,711	0.1	1.2	98.7	0.1	23	15,710-5.8-	1,886-49-	9,119-337-	1,728-45%																	
3. BRILLIAU	1.1	11.54	1.3	1.3	11,711	0.1	1.2	98.7	0.1	24	16,435-8.9-	1,886-49-	9,119-337-	1,728-45%																	
4. MOUNTAIN PASS	1.2	12.32	1.4	1.3	11,711	0.1	1.2	98.7	0.1	25	15,710-5.8-	1,886-49-	9,119-337-	1,728-45%																	
5. VILLAGEHEAD PASS	1.6	16.37	1.4	1.3	11,711	0.1	1.2	98.7	0.1	26	16,435-8.9-	1,886-49-	9,119-337-	1,728-45%																	
6. ASPEN PARK	1.3	13.38	1.4	1.3	11,711	0.1	1.2	98.7	0.1	27	16,435-8.9-	1,886-49-	9,119-337-	1,728-45%																	
TOTALS					11,711	0.1	1.2	98.7	0.1		15,710-5.8-	1,886-49-	9,119-337-	1,728-45%																	

GRAPH A: ANTHRACITE
 Scale 1" = 10,000 Tons
 Average Monthly Output: 10,000 Tons
 Range: 8,000 to 12,000 Tons

GRAPH B: BITUMINOUS
 Scale 1" = 200,000 Tons
 Average Monthly Output: 200,000 Tons
 Range: 150,000 to 250,000 Tons

GRAPH C: LIGNITE
 Scale 1" = 200,000 Tons
 Average Monthly Output: 200,000 Tons
 Range: 150,000 to 250,000 Tons

No. & Quality	Tonnage Where Month Percent	Tonnage Sales Where Month Month	Tonnage Where Month
1	100	100	100
2	100	100	100
3	100	100	100
4	100	100	100
5	100	100	100
6	100	100	100
7	100	100	100
8	100	100	100
9	100	100	100
10	100	100	100
11	100	100	100
12	100	100	100
13	100	100	100
14	100	100	100
15	100	100	100
16	100	100	100
17	100	100	100
18	100	100	100
19	100	100	100
20	100	100	100
21	100	100	100
22	100	100	100
23	100	100	100
24	100	100	100
25	100	100	100
26	100	100	100
27	100	100	100
28	100	100	100
29	100	100	100
30	100	100	100
31	100	100	100
32	100	100	100
33	100	100	100
34	100	100	100
35	100	100	100
36	100	100	100
37	100	100	100
38	100	100	100
39	100	100	100
40	100	100	100
41	100	100	100
42	100	100	100
43	100	100	100
44	100	100	100
45	100	100	100
46	100	100	100
47	100	100	100
48	100	100	100
49	100	100	100
50	100	100	100
51	100	100	100
52	100	100	100
53	100	100	100
54	100	100	100
55	100	100	100
56	100	100	100
57	100	100	100
58	100	100	100
59	100	100	100
60	100	100	100
61	100	100	100
62	100	100	100
63	100	100	100
64	100	100	100
65	100	100	100
66	100	100	100
67	100	100	100
68	100	100	100
69	100	100	100
70	100	100	100
71	100	100	100
72	100	100	100
73	100	100	100
74	100	100	100
75	100	100	100
76	100	100	100
77	100	100	100
78	100	100	100
79	100	100	100
80	100	100	100
81	100	100	100
82	100	100	100
83	100	100	100
84	100	100	100
85	100	100	100
86	100	100	100
87	100	100	100
88	100	100	100
89	100	100	100
90	100	100	100
91	100	100	100
92	100	100	100
93	100	100	100
94	100	100	100
95	100	100	100
96	100	100	100
9			

NOTE

The Map shows the location of the various Fields, the quality of Coal produced in each, the Railway and the chief centres served by said Railways.

Tables 6, 7 & 8 are of interest, showing the analysis, quality, output & percentage each Field is of the total of its kind, also of Sales.

Tables 9, 10 & 11 are interesting, showing where the Coals of each Field find a market.

Lignite - It will be noticed of the output, all the Fields sell Coal in Alberta. In B.C. 7 out of 10 Fields supply Coal. - In Sask. & Man. 17 out of the 27 Fields. In Ont. 8 & in the U.S. 14.

Notice also the great differences in volume of the production of the various Fields & also the amount in the sold & where sold outside of Alberta.

The same data for Bituminous & Anthracite (Tables 10 & 11) affecting particularly where they are disposed of. See Tables 3, 15 & 16, regarding Coal sold to Railways.

Tables 12, 13, 14 & 15 are worthy of study, in regard to the monthly variation in output.

Note particularly the Comparative Graph, at bottom of Table 24. Also in said Table is Group 13 & 14. It is particularly striking the more nearly the Anthracite & Bituminous approach the average, compared with the Lignite, particularly the smaller production.

If there was in Group A, of Table 24, sufficient force to produce 375,929 tons in November for 12 months, it should have an output of 4,487,148 tons. It produced 2,247,540 tons, the latter being 50.1% of the former. Group A produced 65.1% of the total Lignite.

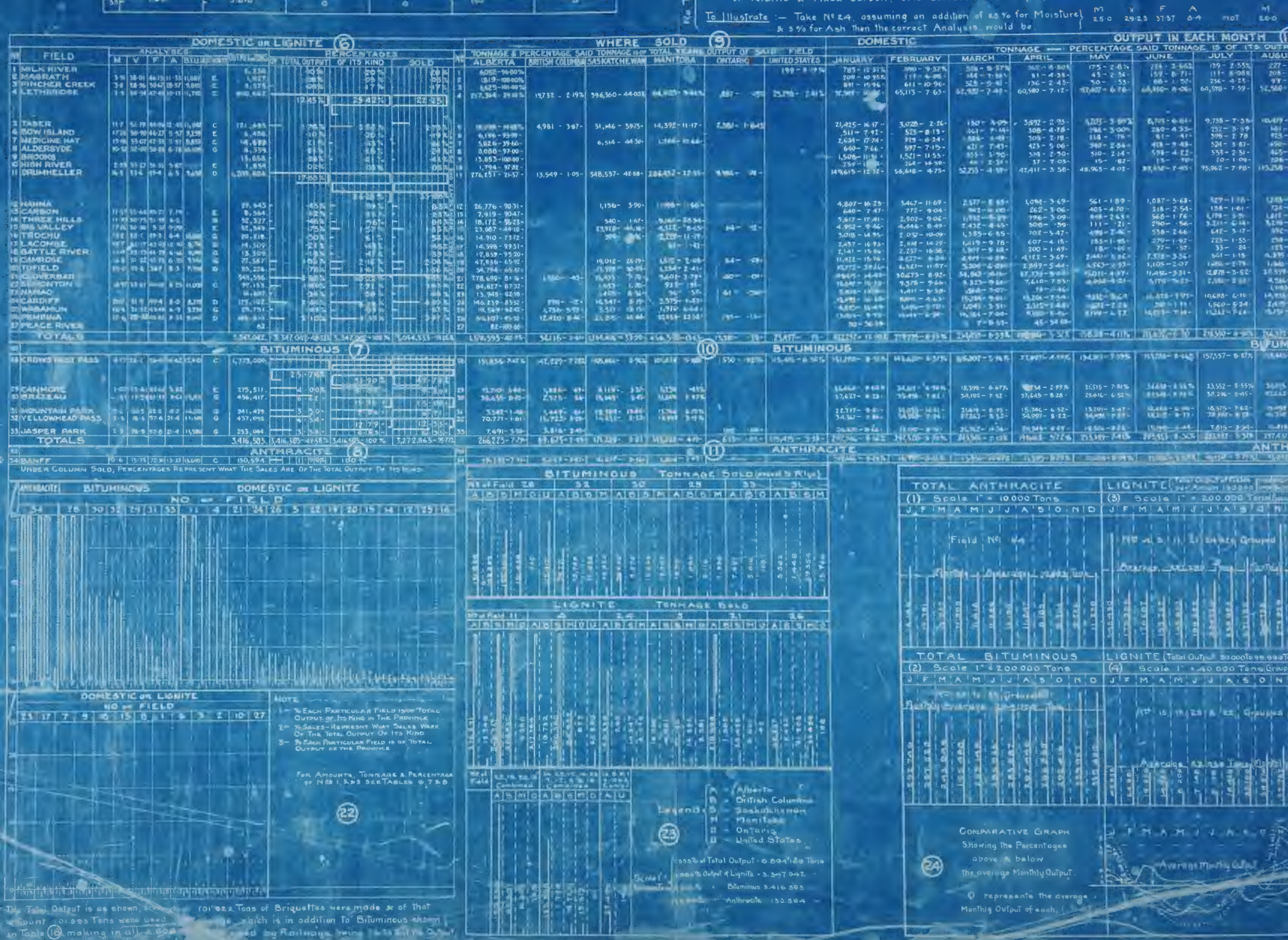
Table 15 shows the Railway consumption each month, & from what Field & the amount obtained.

There is nothing in the Report to show to what extent in the various Provinces such R.R. consumption.

It may be that under a strict classification some Coals & Fields may possibly be

Analysis of some of the Coal in Fields 30 & 32

Field	Analysis	Output	Percentage	Percentage
Creek (Field 30)	10.0 to 10.5	10,100,000	55.5	6.4 to 6.5
Level	10.0 to 10.5	34,900,000	54.3 to 46.9	10.1 to 4.0



1920

1920

1920

#59

Chlorophyll

1920

1920

#59

CONT. 15 R01 M
U.S. 25497

* AITC * BC+ Bask * Mol * USA
235.253 Tons 89875 171309 Tons 14330 Tons 115415

1,733,009

2

[illegible]

NOTE 1: See Note below re Anthracite sold to R/Rs.

④

	ALTA	D. C.	D. S. H.	MAN	ONT	U. S.
10	31,034	45,557	103,660	101,438	552	118,219
20	36,495	1,572	18,864	12,806	0	0
30	79,771	15,732	11,231	3,934	0	0
40	18,710	1,024	9,114	1,556	0	0
50	5,495	1,447	28,323	15,744	0	0
60	1,491	2,810	0	0	190	0

Re. Tables N° 6, 7 & 8

C.P.R. DEPARTMENT OF COLONIZATION & DEVELOPMENT
COAL OUTPUT OF ALBERTA—

AUTHORITY FOR PRODUCTION, DISPOSITION OF, WHEN & WHERE PRODUCED :- MINES BRANCH REPORT
GRAPH No 59. CALGARY. APRIL 25th 1921.

CALGARY APRIL 25th 1921

Complete and advance Sheets of Report, evidence Errors corrected under the direction of undersig the many subdivisions made, was unable to have extent they probably should have been. It is there are no material errors.

C - McGill University Investigations by Porter, Durlay, No 83 Vol.15
D - Mines Branch No 531, 1915
E - Memoir 58 No 4 Geo Survey, D.B.Dowling, 1914.
G - Various Sources, believed by Compiler to be fairly correct.
M - Moisture.
V - Volatile Combustible.
F - Fixed Carbon. A.T.U. - British Thermal Units.

NOTE It is probable, that because of the system adopted in securing & forwarding samples to where the Analysis is made, from content should be added there-to. The higher the said Moisture content, the greater the percentage that should be added. In the case of the Ash from 2% to 5% should be added. When this is done, then a correction will be made for Volatile & Fixed Carbon, said correction to be proportional to the amounts given in the Analysis.

To Illustrate :— Take No 24, assuming an addition of 25 % for Moisture & 5 % for Ash then the correct Analysis would be

DOMESTIC OR LIGNITE (6)										WHERE SOLD (5)					OUTPUT IN EACH MONTH (12)															
M	FIELD	ANALYSE				PERCENTAGE				M	TONNAGE & PERCENTAGE SAID TONNAGE IS OF TOTAL TONNAGE OUTPUT OF FIELD				TONNAGE & PERCENTAGE SAID TONNAGE IS OF TOTAL TONNAGE OUTPUT OF FIELD															
		N	V	F	A	Moisture	Fixed Carbon	Volatile Matter	Ash		ALBERTA	BRITISH COLUMBIA	SASKATCHEWAN	MANITOBA	ONTARIO	UNITED STATES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST						
1	1000 RIVER	1.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	1	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0							
2	1000 RIVER	1.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	2	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0							
3	1000 RIVER	1.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	3	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0							
4	1000 RIVER	1.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	4	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0							
5	1000 RIVER	1.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	5	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0							
6	1000 RIVER	1.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	6	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0							
7	1000 RIVER	1.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	7	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0							
8	1000 RIVER	1.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	8	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0							
9	1000 RIVER	1.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0							
10	1000 RIVER	1.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0							
11	1000 RIVER	1.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	11	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0							
12	1000 RIVER	1.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	12	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0							
13	1000 RIVER	1.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	13	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0							
14	1000 RIVER	1.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	14	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0							
15	1000 RIVER	1.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	15	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0							
16	1000 RIVER	1.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	16	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0							
17	1000 RIVER	1.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	17	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0							
18	1000 RIVER	1.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	18	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0							
19	1000 RIVER	1.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	19	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0							
20	1000 RIVER	1.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	20	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0							
21	1000 RIVER	1.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	21	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0							
22	1000 RIVER	1.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	22	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0							
23	1000 RIVER	1.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	23	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0							
24	1000 RIVER	1.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	24	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0							
25	1000 RIVER	1.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	25	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0							
26	1000 RIVER	1.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	26	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0							
27	1000 RIVER	1.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	27	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0							
TOTALS										1,347,847	3,347,042	48,522	3,347,042	100 %	3,054,355	9,263	1,346,515	48,719	52,116	1,159,410	15,730	4,463,300	5,433	15,381	15,717	47,225	1,159,410	15,730	4,463,300	5,433

[illegible]

DEPARTMENT OF COLONIZATION & DEVELOPMENT OUTPUT OF ALBERTA-1920

POSITION OF WHEN & WHERE PRODUCED :- MINES BRANCH REPORT FOR ALBERTA.

CALGARY, APRIL 25th 1921.

W. PEARCE.

Complete from advance Sheets of Report, evidently not finally checked, Errors corrected under the direction of undersigned, who, however, being to the many subdivisions made, was unable to have checks made to the same. It is believed however that there are no material errors.

Noted in securing & forwarding samples to where the Analysis is made, from 10 to 25 % of the Moisture higher the said Moisture content the greater the percentage that should be added. When this is done then a correction will be necessary, in the case of correction to be proportional to the amounts given in the Analysis.

Analysis for Moisture: M V F A M V F A
25.0 29.23 57.37 8.4 not 20.0 31.6 40.4 8.0

Lignite Where disposed of

Man	Spa
350,452	128,537
8,801	5,453
4,478	14,347
14,853	21,303
14,482	81,184
12,195	15,782
1,111	1,360
1,108	1,360
1,351	1,360

Lignite Where disposed of

Man	Spa
8,801	5,453
4,478	14,347
14,853	21,303
14,482	81,184
12,195	15,782
1,111	1,360
1,108	1,360
1,351	1,360

Total Output

2,200,000

Grouping	11, 4, 21, 24, 26 & 5	12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100
11	11, 4, 21, 24, 26 & 5	12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

Total Sales of Group A	% of its Output
11, 4, 21, 24, 26 & 5	11.4
12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100	88.6

% Distribution based on	Total Sales
11.4	11.4
88.6	88.6

OUTPUT IN EACH MONTH

MONTH	TONNAGE	PERCENTAGE	SAID TONNAGE	IS OF ITS OUTPUT	FOR THE YEAR 1920
JANUARY	1,010,544	45.9	1,010,544	45.9	1,010,544
FEBRUARY	1,010,544	45.9	1,010,544	45.9	1,010,544
MARCH	1,010,544	45.9	1,010,544	45.9	1,010,544
APRIL	1,010,544	45.9	1,010,544	45.9	1,010,544
MAY	1,010,544	45.9	1,010,544	45.9	1,010,544
JUNE	1,010,544	45.9	1,010,544	45.9	1,010,544
JULY	1,010,544	45.9	1,010,544	45.9	1,010,544
AUGUST	1,010,544	45.9	1,010,544	45.9	1,010,544
SEPTEMBER	1,010,544	45.9	1,010,544	45.9	1,010,544
OCTOBER	1,010,544	45.9	1,010,544	45.9	1,010,544
NOVEMBER	1,010,544	45.9	1,010,544	45.9	1,010,544
DECEMBER	1,010,544	45.9	1,010,544	45.9	1,010,544

BITUMINOUS COAL SOLD TO RAILWAY-1920

FIELD	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE
1. CROWNEST PASS	101,054 - 8.4%	117,356 - 9.1%	75,602 - 6.3%	46,822 - 3.9%	97,467 - 7.3%	107,876 - 8.9%
29. CANMORE	25,282 - 10.0%	21,679 - 9.3%	16,279 - 7.0%	5,922 - 2.5%	16,531 - 7.0%	11,675 - 9.1%
3. BRAZEAU	53,086 - 8.3%	30,181 - 8.0%	30,921 - 7.1%	34,425 - 8.6%	15,000 - 4.4%	34,568 - 8.4%
31. MOUNTAIN PARK	6,487 - 3.9%	31,150 - 17.1%	15,580 - 7.9%	15,618 - 7.5%	3,874 - 4.4%	12,157 - 6.1%
32. YELLOWHEAD PASS	16,765 - 8.6%	21,465 - 6.9%	25,379 - 9.4%	19,206 - 6.9%	16,700 - 8.4%	21,362 - 8.1%
33. JASPER PARK	11,510 - 5.8%	17,425 - 8.1%	21,858 - 11.2%	1,817 - 4.4%	11,811 - 8.8%	12,631 - 8.4%
TOTALS	11,422 - 7.8%	241,044 - 9.1%	142,175 - 7.2%	113,411 - 5.4%	154,776 - 7.6%	185,158 - 8.4%
FIELD	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1. CROWNEST PASS	11,422 - 7.8%	241,044 - 9.1%	142,175 - 7.2%	113,411 - 5.4%	154,776 - 7.6%	185,158 - 8.4%
29. CANMORE	11,422 - 7.8%	241,044 - 9.1%	142,175 - 7.2%	113,411 - 5.4%	154,776 - 7.6%	185,158 - 8.4%
3. BRAZEAU	11,422 - 7.8%	241,044 - 9.1%	142,175 - 7.2%	113,411 - 5.4%	154,776 - 7.6%	185,158 - 8.4%
31. MOUNTAIN PARK	11,422 - 7.8%	241,044 - 9.1%	142,175 - 7.2%	113,411 - 5.4%	154,776 - 7.6%	185,158 - 8.4%
32. YELLOWHEAD PASS	11,422 - 7.8%	241,044 - 9.1%	142,175 - 7.2%	113,411 - 5.4%	154,776 - 7.6%	185,158 - 8.4%
33. JASPER PARK	11,422 - 7.8%	241,044 - 9.1%	142,175 - 7.2%	113,411 - 5.4%	154,776 - 7.6%	185,158 - 8.4%
TOTALS	11,422 - 7.8%	241,044 - 9.1%	142,175 - 7.2%	113,411 - 5.4%	154,776 - 7.6%	185,158 - 8.4%

INDEX

Table No. shown thus - (16)

FIELD

Field No.	General Map & Table No.	Quality of
1	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100	Anthracite
2	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100	Bituminous
3	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100	Lignite

ANTHRACITE	LIGNITE	LIGNITE
1. 10,000 Tons	2. 10,000 Tons	3. 10,000 Tons
4. 10,000 Tons	5. 10,000 Tons	6. 10,000 Tons

NOTE

The Map shows the location of the mines, the quality of Coal produced in each, the Railway connections, and the chief centres served by said Railways. Tables 6, 7 & 8 are of interest, showing the analysis, quality, output & percentage each Field is of the Total output of its kind, also of Sales. Tables 9, 10 & 11 are interesting, showing where the Coals of each Field find a market. Lignite :- It will be noticed of the output, all the Fields sell Coal in Alberta. In B.C. 7 out of the 27

DOMESTIC OR LIGNITE (6)									
FIELD	ANALYSIS					PERCENTAGES			
	M	V	F	A	BT	OF TOTAL OUTPUT	OF ITS KIND	FIELD	
1 MILK RIVER	3.8	38.0	4.1	11.3	1.8	6,230	10.4	20.5	20.5
2 MAGNATH	3.8	38.0	4.1	11.3	1.8	1,827	2.9	7.5	7.5
3 PINCHER CREEK	3.8	38.0	4.1	11.3	1.8	5,375	8.6	22.5	22.5
4 LETHBRIDGE	3.8	38.0	4.1	11.3	1.8	550,662	88.6	22.5	22.5
5 TABER	3.8	38.0	4.1	11.3	1.8	12,405	20.0	22.5	22.5
6 BOW ISLAND	3.8	38.0	4.1	11.3	1.8	5,456	8.8	22.5	22.5
7 MEDICINE HAT	3.8	38.0	4.1	11.3	1.8	47,886	77.2	22.5	22.5
8 ALDERSYDE	3.8	38.0	4.1	11.3	1.8	5,339	8.6	22.5	22.5
9 BROOKS	3.8	38.0	4.1	11.3	1.8	11,883	19.2	22.5	22.5
10 HIGH RIVER	3.8	38.0	4.1	11.3	1.8	1,884	3.0	22.5	22.5
11 GUNNELLER	3.8	38.0	4.1	11.3	1.8	1,207,884	19,632	22.5	22.5
TOTALS						3,342,001	5,408	22.5	22.5

WHERE SOLD (9)									
FIELD	ANALYSIS					PERCENTAGES			
	M	V	F	A	BT	OF TOTAL OUTPUT	OF ITS KIND	FIELD	
ALBERTA	3.8	38.0	4.1	11.3	1.8	6,230	10.4	20.5	20.5
BRITISH COLUMBIA	3.8	38.0	4.1	11.3	1.8	1,827	2.9	7.5	7.5
SASKATCHEWAN	3.8	38.0	4.1	11.3	1.8	5,375	8.6	22.5	22.5
MANITOBA	3.8	38.0	4.1	11.3	1.8	550,662	88.6	22.5	22.5
ONTARIO	3.8	38.0	4.1	11.3	1.8	12,405	20.0	22.5	22.5
UNITED STATES	3.8	38.0	4.1	11.3	1.8	5,456	8.8	22.5	22.5
TOTALS						3,342,001	5,408	22.5	22.5

OUTPUT IN EACH MONTH (12)									
FIELD	ANALYSIS					PERCENTAGES			
	M	V	F	A	BT	OF TOTAL OUTPUT	OF ITS KIND	FIELD	
JANUARY	3.8	38.0	4.1	11.3	1.8	6,230	10.4	20.5	20.5
FEBRUARY	3.8	38.0	4.1	11.3	1.8	1,827	2.9	7.5	7.5
MARCH	3.8	38.0	4.1	11.3	1.8	5,375	8.6	22.5	22.5
APRIL	3.8	38.0	4.1	11.3	1.8	550,662	88.6	22.5	22.5
MAY	3.8	38.0	4.1	11.3	1.8	12,405	20.0	22.5	22.5
JUNE	3.8	38.0	4.1	11.3	1.8	5,456	8.8	22.5	22.5
JULY	3.8	38.0	4.1	11.3	1.8	47,886	77.2	22.5	22.5
AUGUST	3.8	38.0	4.1	11.3	1.8	5,339	8.6	22.5	22.5
SEPTEMBER	3.8	38.0	4.1	11.3	1.8	11,883	19.2	22.5	22.5
OCTOBER	3.8	38.0	4.1	11.3	1.8	1,884	3.0	22.5	22.5
NOVEMBER	3.8	38.0	4.1	11.3	1.8	1,207,884	19,632	22.5	22.5
DECEMBER	3.8	38.0	4.1	11.3	1.8	1,207,884	19,632	22.5	22.5
TOTALS						3,342,001	5,408	22.5	22.5

BITUMINOUS (7)									
FIELD	ANALYSIS					PERCENTAGES			
	M	V	F	A	BT	OF TOTAL OUTPUT	OF ITS KIND	FIELD	
12 CARBON	3.8	38.0	4.1	11.3	1.8	7,443	12.4	20.5	20.5
13 THREE HILLS	3.8	38.0	4.1	11.3	1.8	3,327	5.4	7.5	7.5
14 VALLEY	3.8	38.0	4.1	11.3	1.8	1,849	3.0	7.5	7.5
15 TROCHIL	3.8	38.0	4.1	11.3	1.8	8,819	14.3	7.5	7.5
16 LACOMBE	3.8	38.0	4.1	11.3	1.8	15,305	25.0	7.5	7.5
17 SATELE RIVER	3.8	38.0	4.1	11.3	1.8	12,309	20.0	7.5	7.5
18 MIDLAND	3.8	38.0	4.1	11.3	1.8	75,587	124.3	7.5	7.5
19 FIELD	3.8	38.0	4.1	11.3	1.8	45,226	74.0	7.5	7.5
20 OVERBANK	3.8	38.0	4.1	11.3	1.8	95,396	155.3	7.5	7.5
21 MOUNTAIN	3.8	38.0	4.1	11.3	1.8	77,133	125.3	7.5	7.5
22 BARRIO	3.8	38.0	4.1	11.3	1.8	6,887	11.2	7.5	7.5
23 CARBIDE	3.8	38.0	4.1	11.3	1.8	11,432	18.7	7.5	7.5
24 MAMAMUN	3.8	38.0	4.1	11.3	1.8	2,781	4.5	7.5	7.5
25 MEMBINA	3.8	38.0	4.1	11.3	1.8	95,813	155.3	7.5	7.5
26 CROACE RIVER	3.8	38.0	4.1	11.3	1.8	83	0.1	7.5	7.5
TOTALS						3,342,001	5,408	22.5	22.5

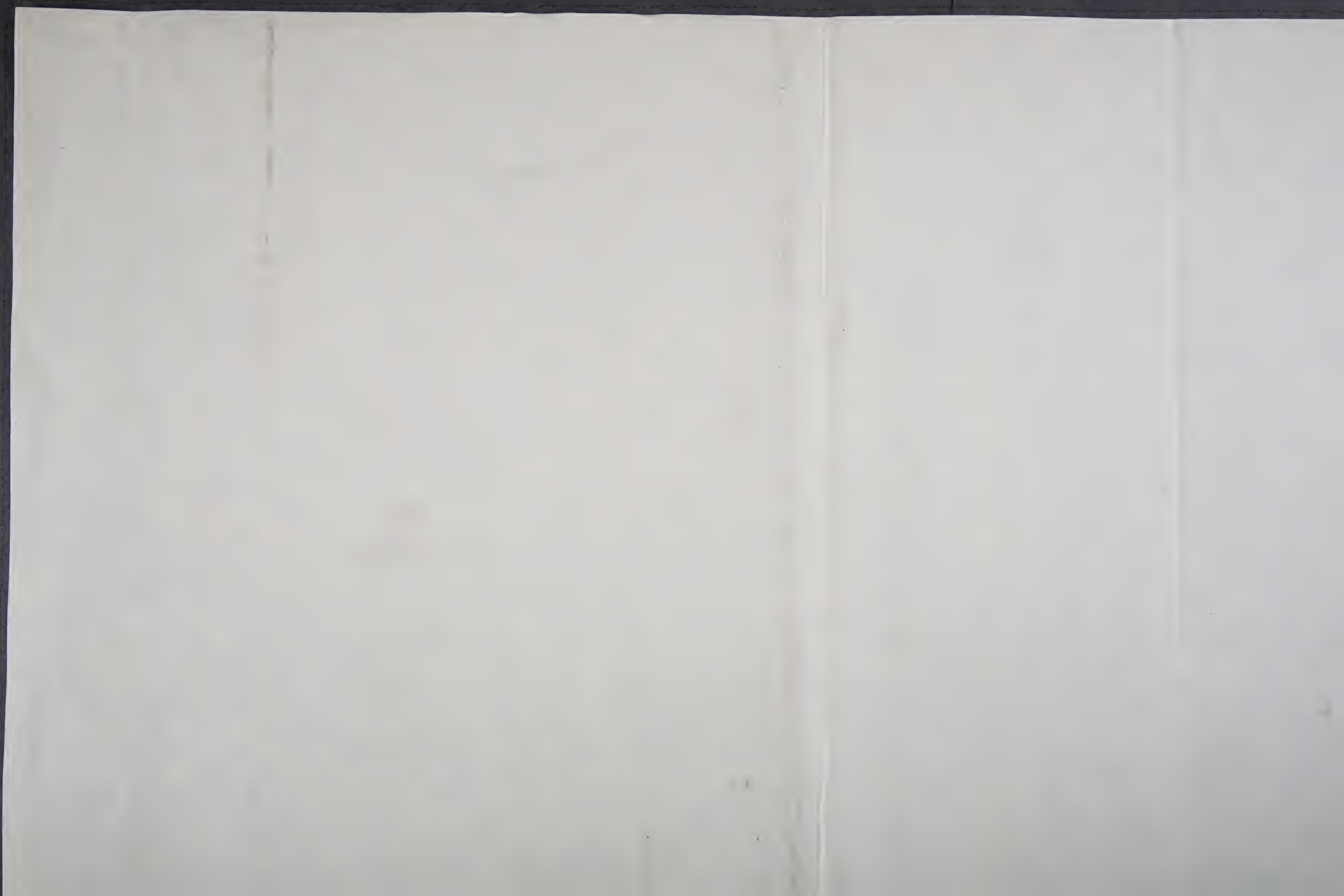
BITUMINOUS (10)									
FIELD	ANALYSIS					PERCENTAGES			
	M	V	F	A	BT	OF TOTAL OUTPUT	OF ITS KIND	FIELD	
ALBERTA	3.8	38.0	4.1	11.3	1.8	6,230	10.4	20.5	20.5
BRITISH COLUMBIA	3.8	38.0	4.1	11.3	1.8	1,827	2.9	7.5	7.5
SASKATCHEWAN	3.8	38.0	4.1	11.3	1.8	5,375	8.6	22.5	22.5
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ONTARIO	3.8	38.0	4.1	11.3	1.8	12,405	20.0	22.5	22.5
UNITED STATES	3.8	38.0	4.1	11.3	1.8	5,456	8.8	22.5	22.5
TOTALS						3,342,001	5,408	22.5	22.5

BITUMINOUS (11)									
FIELD	ANALYSIS					PERCENTAGES			
	M	V	F	A	BT	OF TOTAL OUTPUT	OF ITS KIND	FIELD	
JANUARY	3.8	38.0	4.1	11.3	1.8	6,230	10.4	20.5	20.5
FEBRUARY	3.8	38.0	4.1	11.3	1.8	1,827	2.9	7.5	7.5
MARCH	3.8	38.0	4.1	11.3	1.8	5,375	8.6	22.5	22.5
APRIL	3.8	38.0	4.1	11.3	1.8	550,662	88.6	22.5	22.5
MAY	3.8	38.0	4.1	11.3	1.8	12,405	20.0	22.5	22.5
JUNE	3.8	38.0	4.1	11.3	1.8	5,456	8.8	22.5	22.5
JULY	3.8	38.0	4.1	11.3	1.8	47,886	77.2	22.5	22.5
AUGUST	3.8	38.0	4.1	11.3	1.8	5,339	8.6	22.5	22.5
SEPTEMBER	3.8	38.0	4.1	11.3	1.8	11,883	19.2	22.5	22.5
OCTOBER	3.8	38.0	4.1	11.3	1.8	1,884	3.0	22.5	22.5
NOVEMBER	3.8	38.0	4.1	11.3	1.8	1,207,884	19,632	22.5	22.5
DECEMBER	3.8	38.0	4.1	11.3	1.8	1,207,884	19,632	22.5	22.5
TOTALS						3,342,001	5,408	22.5	22.5

ANTRACITE (8)

UNITED STATES, BRITISH COLUMBIA, SASKATCHEWAN, MANITOBA, ONTARIO, ALBERTA

DOMESTIC OR LIGNITE (22)									
FIELD	ANALYSIS					PERCENTAGES			
	M	V	F	A	BT	OF TOTAL OUTPUT	OF ITS KIND	FIELD	
27	3.8	38.0	4.1	11.3	1.8	1,207,884	19,632	22.5	22.5
28	3.8	38.0	4.1	11.3	1.8	1,207,884	19,632	22.5	22.5
29	3.8	38.0	4.1	11.3	1.8	1,207,884	19,632	22.5	22.5
30	3.8	38.0	4.1	11.3	1.8	1,207,884	19,632	22.5	22.5
31	3.8	38.0	4.1	11.3	1.8	1,207,884	19,632	22.5	22.5
32	3.8	38.0	4.1	11.3	1.8	1,207,884	19,632	22.5	22.5
33	3.8	38.0	4.1	11.3	1.8	1,207,884	19,632	22.5	22.5
34	3.8	38.0	4.1	11.3	1.8	1,207,884	19,632	22.5	22.5
35	3.8	38.0	4.1	11.3	1.8	1,207,884	19,632	22.5	22.5
36	3.8	38.0	4.1	11.3	1.8	1,207,884	19,632	22.5	22.5
37	3.8	38.0	4.1	11.3	1.8	1,207,884	19,632	22.5	22.5
38	3.8	38.0	4.1	11.3	1.8	1,207,884	19,632	22.5	22.5
39	3.8	38.0	4.1	11.3	1.8	1,207,884	19,632	22.5	22.5
40	3.8	38.0	4.1	11.3	1.8	1,207,884	19,632	22.5	22.5
41	3.8	38.0	4.1	11.3	1.8	1,207,884	19,632	22.5	22.5
42	3.8	38.0	4.1	11.3	1.8	1,207,884	19,632	22.5	22.5
43	3.8	38.0	4.1	11.3	1.8	1,207,884	19,632	22.5	22.5
44	3.8	38.0	4.1	11.3	1.8	1,207,884	19,632	22.5	22.5
45	3.8	38.0	4.1	11.3	1.8	1,207,884	19,632	22.5	22.5
46	3.8	38.0	4.1	11.3	1.8	1,207,884	19,632	22.5	22.5
47	3.8	38.0	4.1	11.3	1.8	1,207,884	19,632	22.5	22.5
48	3.8	38.0	4.1	11.3	1.8	1,207,884	19,632	22.5	22.5
49	3.8	38.0	4.1	11.3	1.8	1,207,884	19,632	22.5	22.5
50	3.8	38.0	4.1	11.3	1.8	1,207,884	19,632	22.5	22.5
51	3.8	38.0	4.1	11.3	1.8	1,207,884	19,632	22.5	22.5
52	3.8	38.0	4.1	11.3	1.8	1,207,884	19,632	22.5	22.5
53	3.8	38.0	4.1	11.3	1.8	1,207,884	19,632	22.5	22.5
54	3.8	38.0	4.1	11.3	1.8	1,207,884	19,632	22.5	22.5
55	3.8	38.0	4.1	11.3	1.8	1,207,884	19,632	22.5	22.5
56	3.8	38.0	4.1	11.3	1.8	1,207,884	19,632	22.5	22.5
57	3.8	38.0	4.1	11.3	1.8	1,207,884	19,632	22.5	22.5
58	3.8	38.0	4.1	11.3	1.8	1,207,884	19,632	22.5	22.5
59	3.8	38.0	4.1	11.3	1.8	1,207,884	19,632	22.5	22.5
60	3.8	38.0	4.1	11.3	1.8	1,207,884	19,632	22.5	22.5
61	3.8	38.0	4.1	11.3	1.8	1,207,884	19,632	22.5	22.5
62	3.8	38.0	4.1	11.3	1.8	1,207,884	19,632	22.5	22.5
63	3.8	38.0	4.1	11.3	1.8	1,207,884	19,632	22.5	22.5
64	3.8	38.0	4.1	11.3	1.8	1,207,884	19,632	22.5	22.5
65	3.8	38.0	4.1	11.3	1.8	1,207,884	19,632	22.5	22.5
66	3.8	38.0	4.1	11.3	1.8	1,207,884	19,632	22.5	22.5
67	3.8	38.0	4.1	11.3	1.8	1,207,884	19,632	22.5	22.5



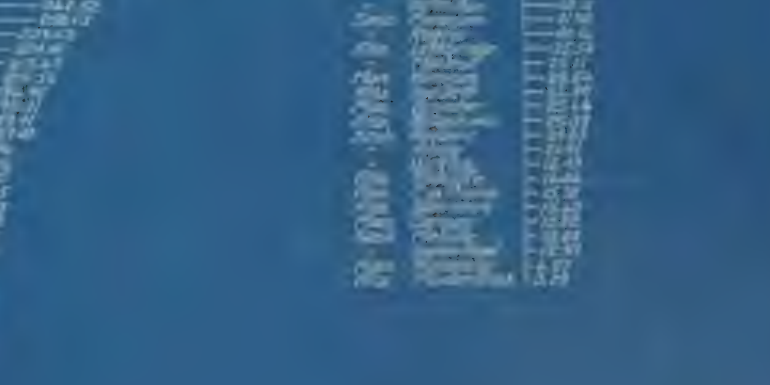
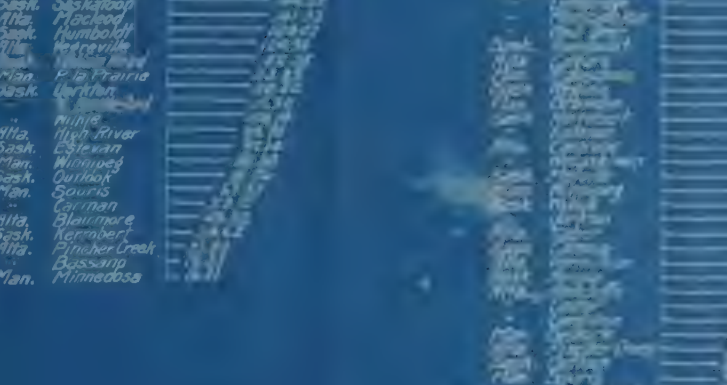
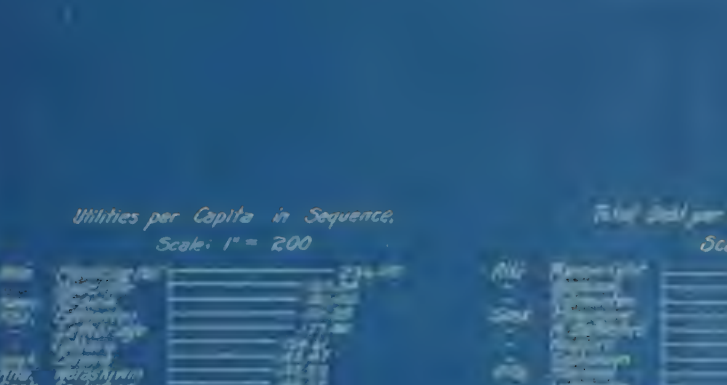
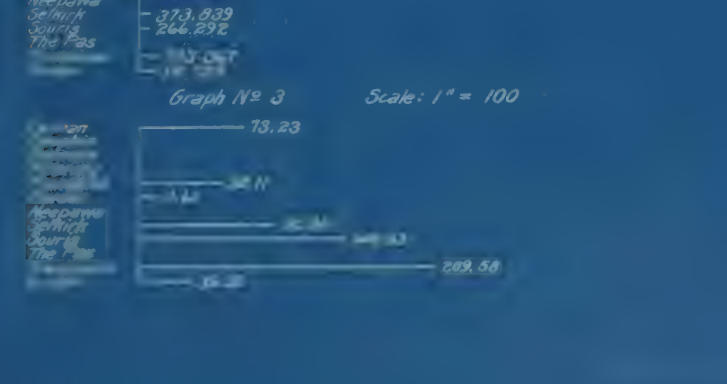
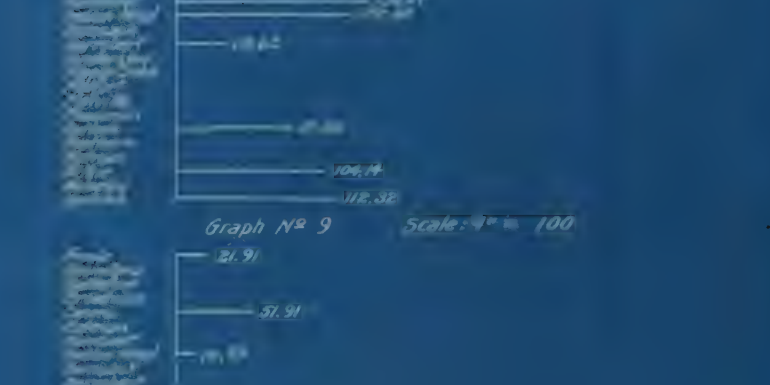
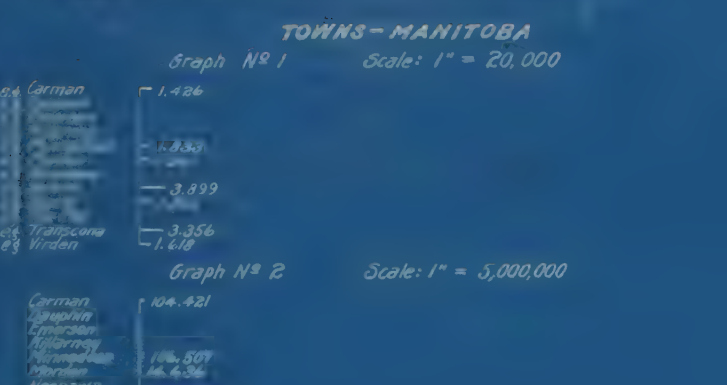
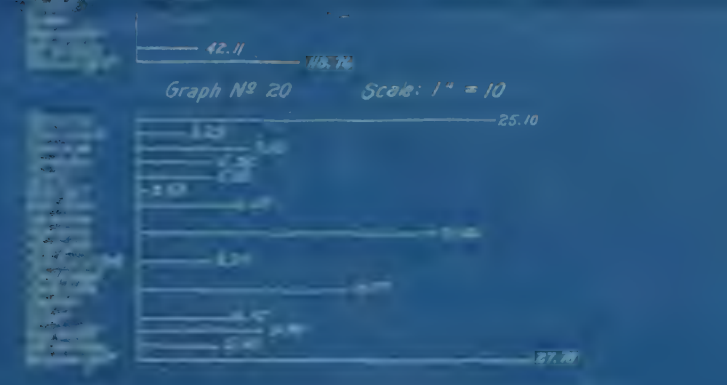
Small
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(14/10)

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LAA 1974-169-2100-002-024



TOWNS - SASKATCHEWAN
Scale: 1" = 20,000

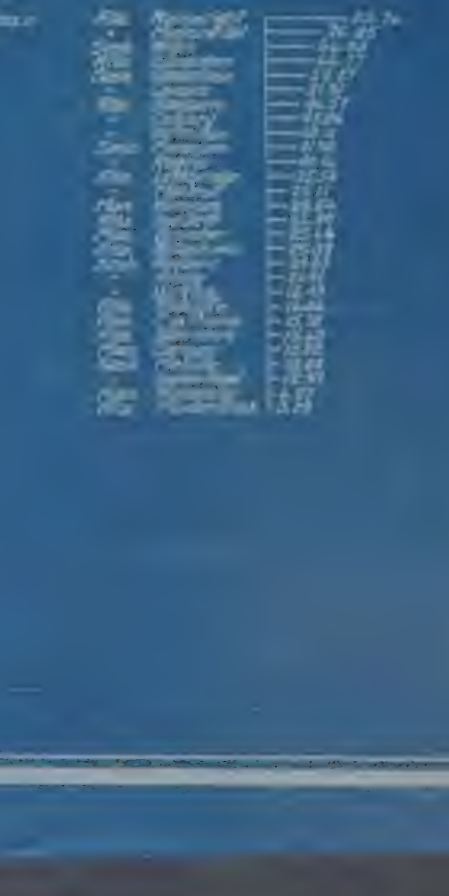
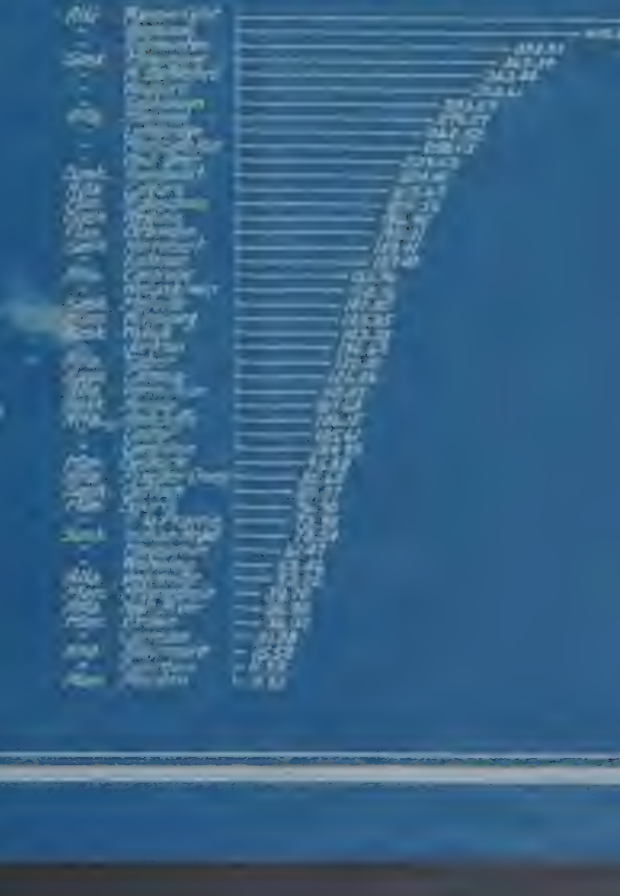
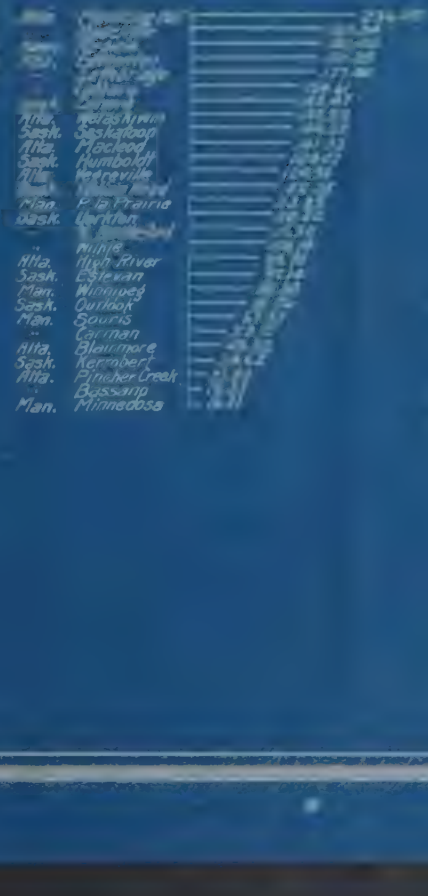


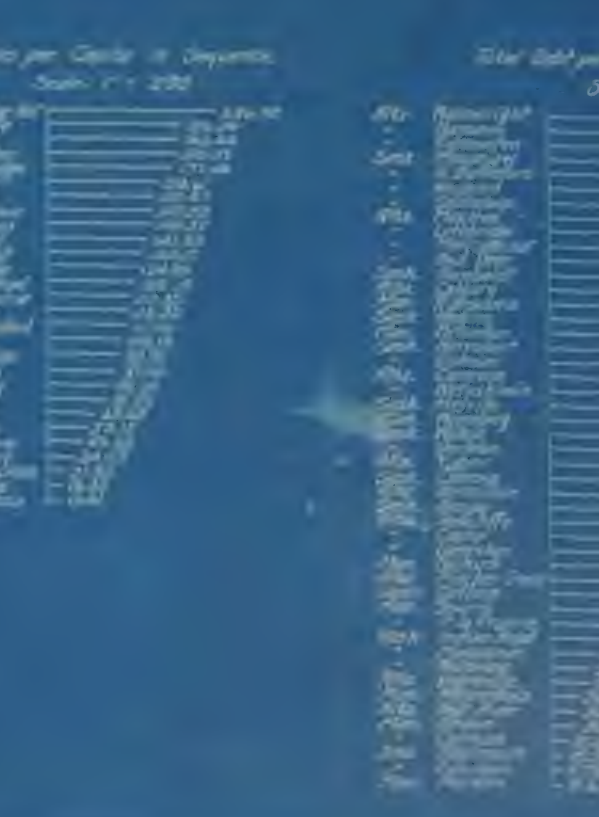
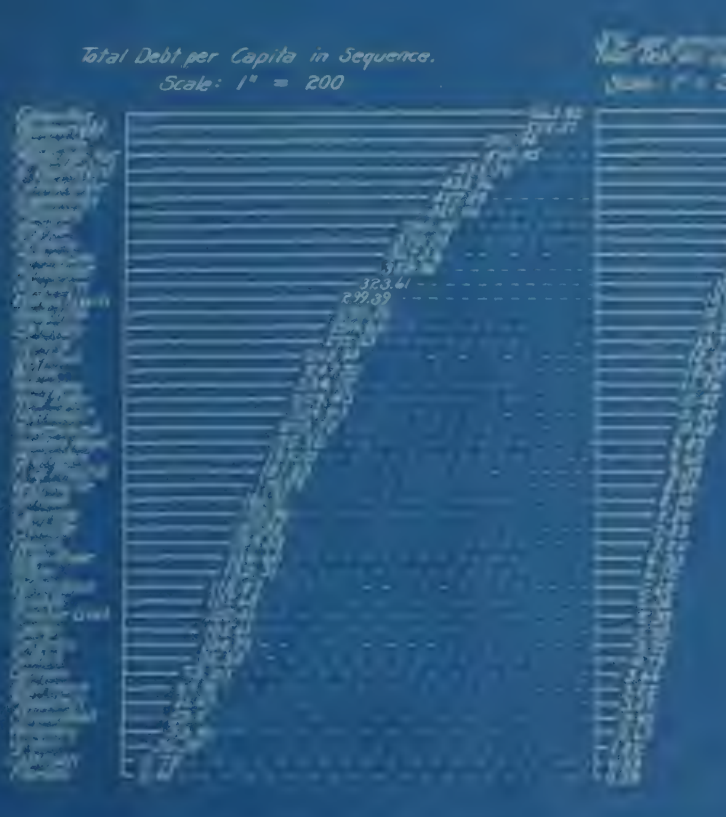
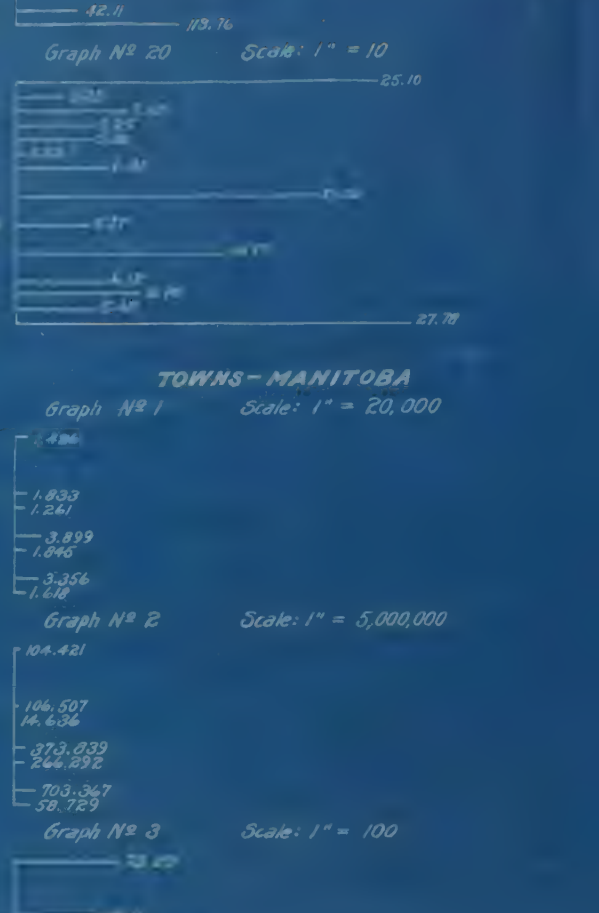
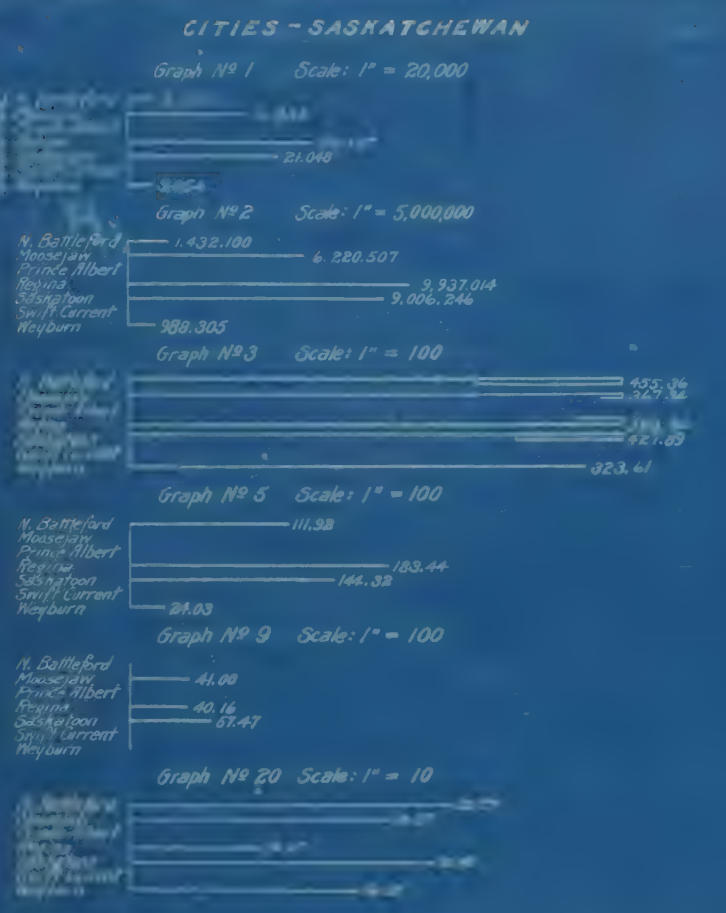
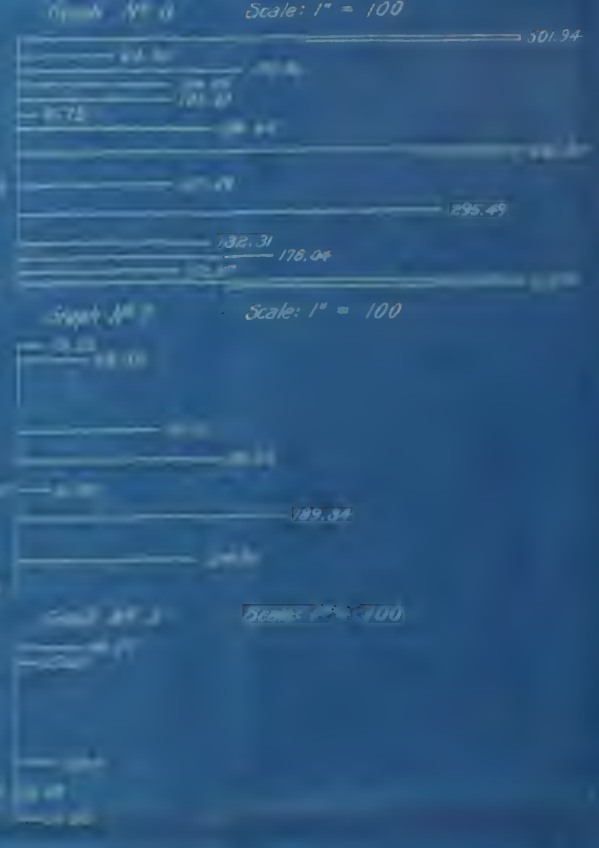
5% per annum on Total Debt per Capita
Scale: 1" = 20

Utilities per Capita in Sequence
Scale: 1" = 200

Total Debt per Capita and Utilities in Sequence
Scale: 1" = 200

School Debt per Capita in Sequence
Scale: 1" = 200

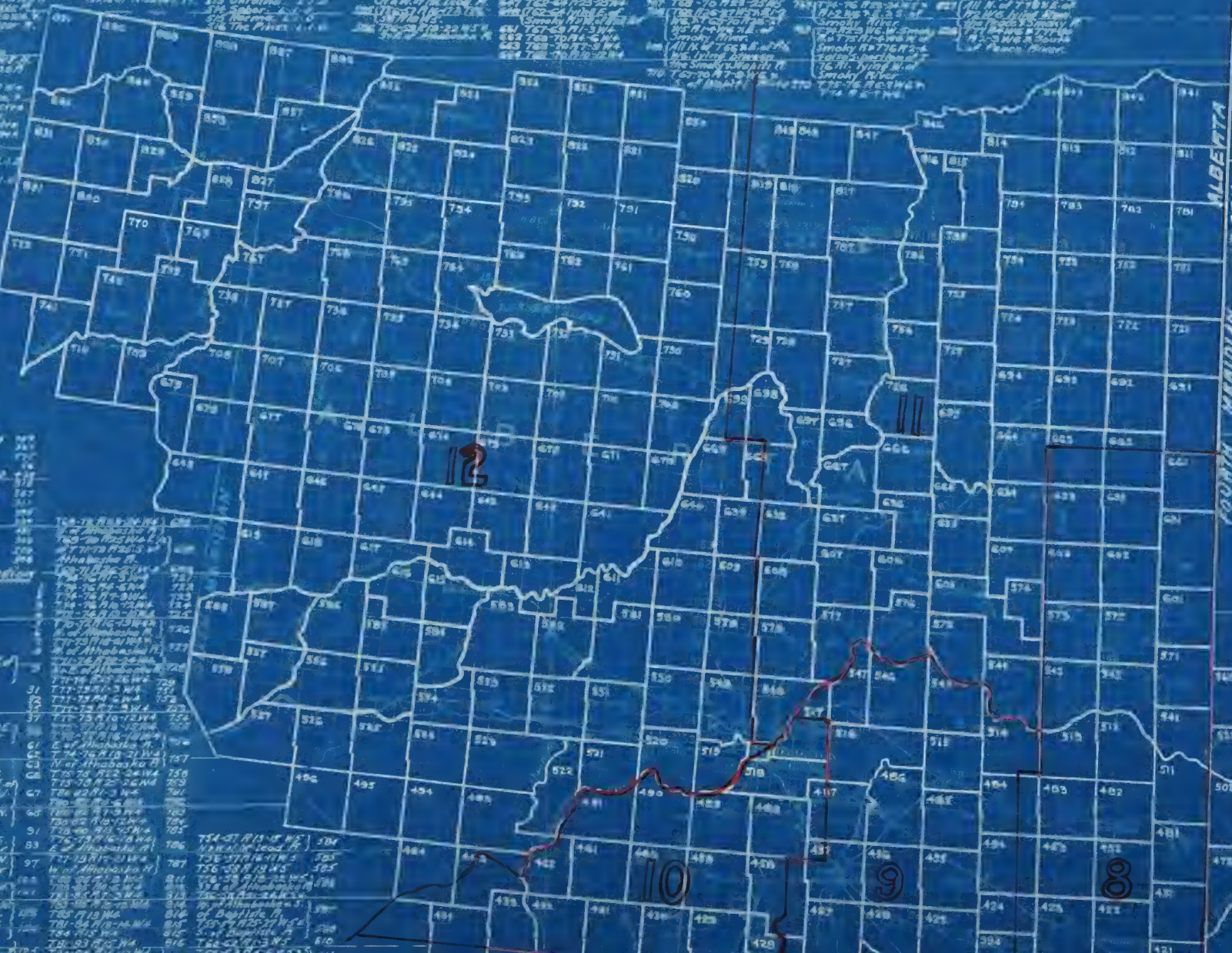






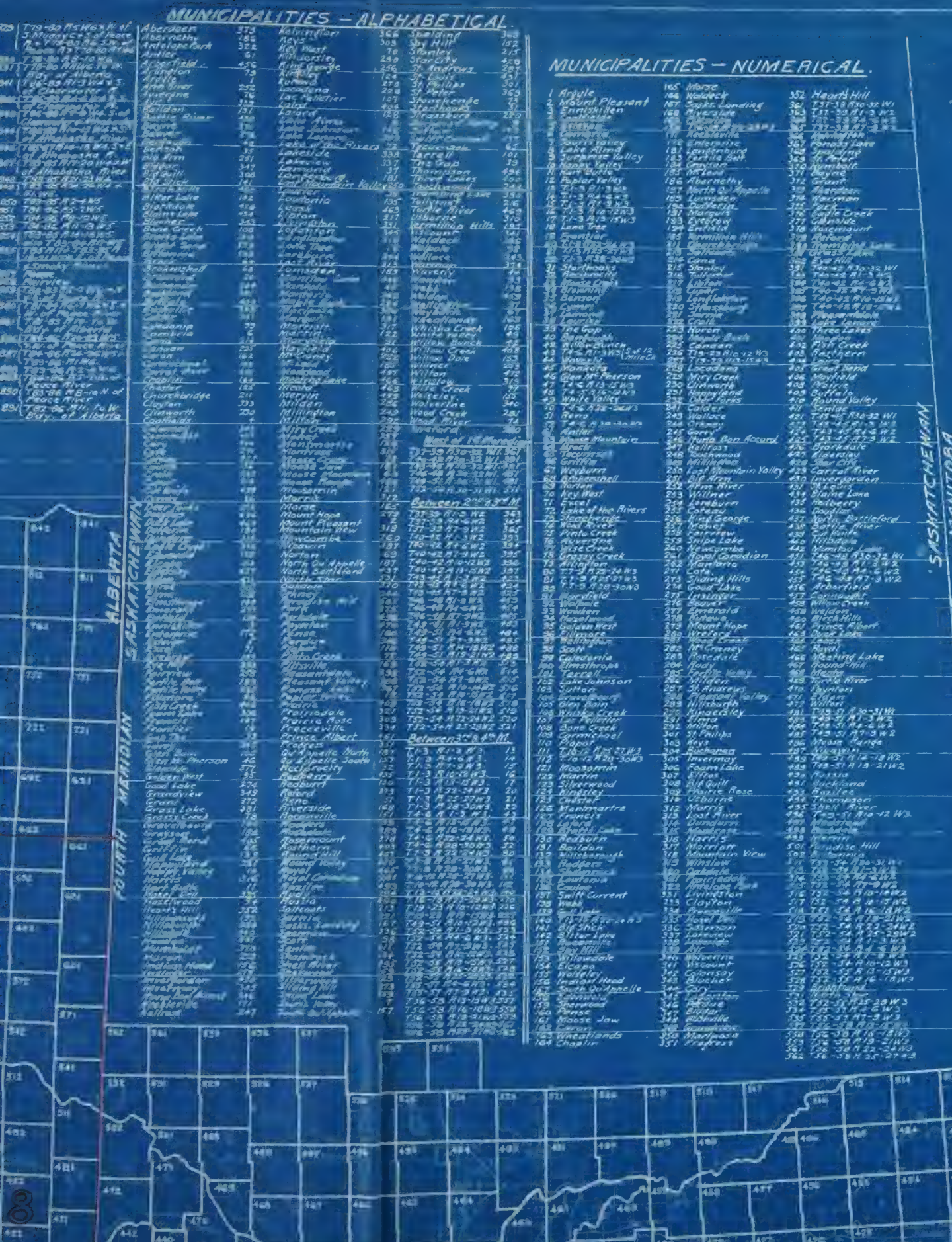
WAA-1974-169-2100-002-028

MUNICIPALITIES - ALPHABETICAL

MUNICIPALITIES - NUMEMUNICIPALITIES-
ALPHABETICAL

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17427



CANADIAN PACIFIC RAILWAY COMPANY

COLONIZATION AND DEVELOPMENT BRANCH

MAP OF MANITOBA, SASKATCHEWAN AND ALBERTA

J. S. DENNIS
CHIEF COMMISSIONER

Scale 35 Miles to 1 Inch

Showing as units each Municipality, Local Improvement Districts and areas which will eventually become Local Improvement Districts and afterwards Municipalities.
Drawn to scale. The Cultivated area in acres, with Stock areas in acres, Horses, Cattle, Sheep, and Pigs, with the area apportioned thereof.

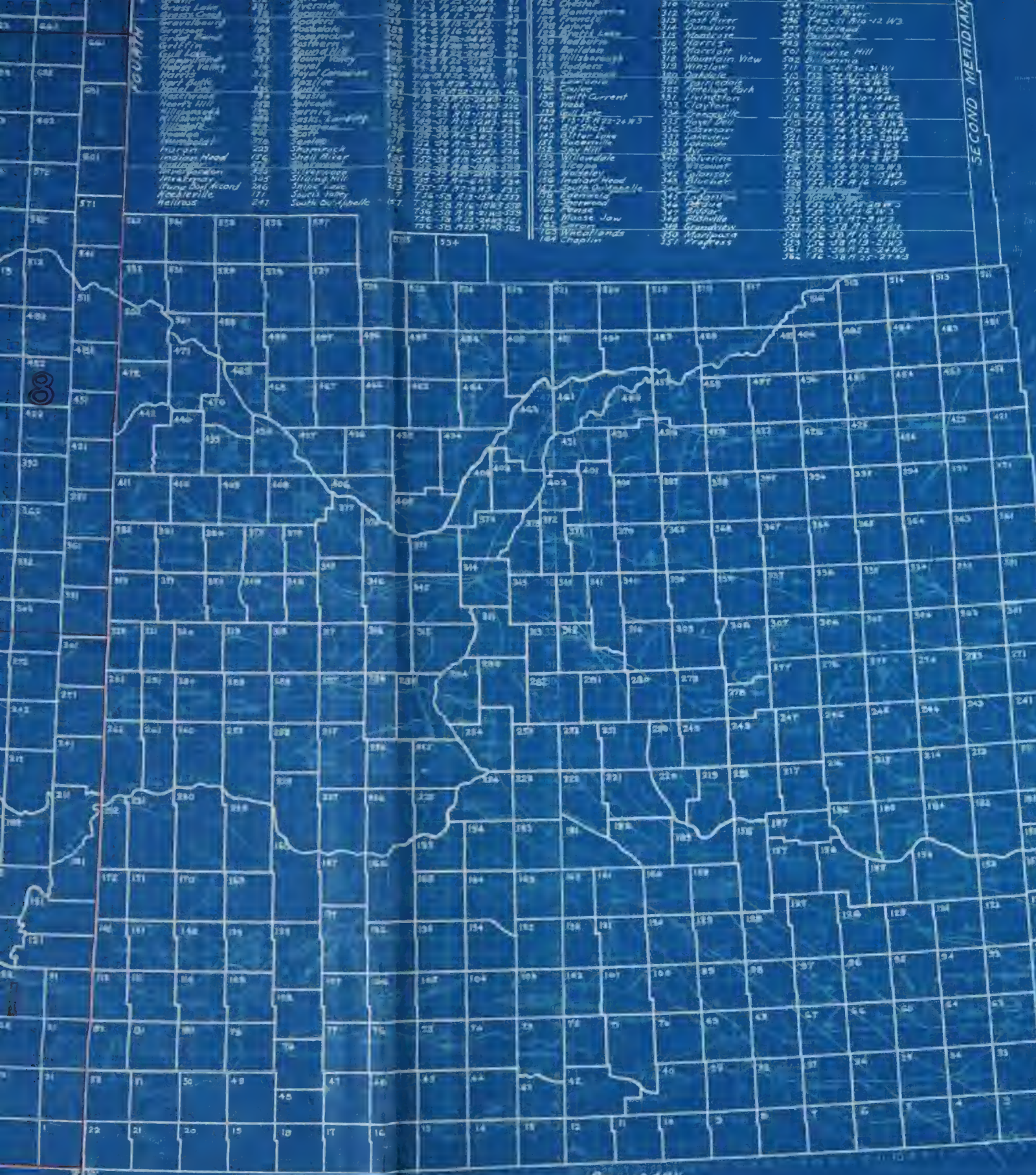
LEGEND

Nº27

ALBERTA
FEDERAL CONSTITUENCIES

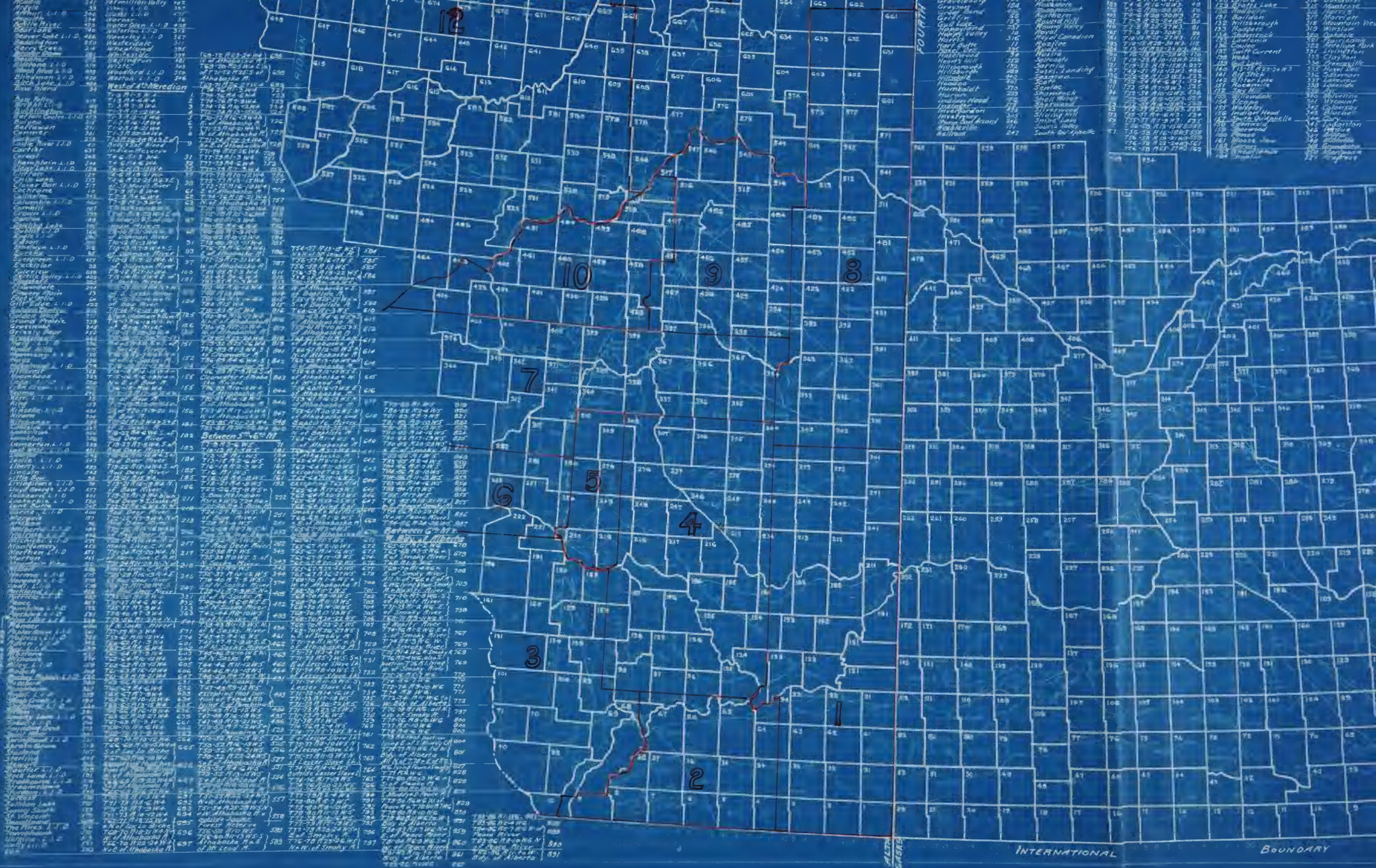
1. Medicine Hat
2. Lethbridge
3. Macleod
4. Bow River
5. East Calgary
6. West Calgary
7. Red Deer
8. Battle River
9. Victoria
10. Strathcona
11. East Edmonton
12. West Edmonton

MUNICIPALITIES - ALPHABETICAL		MUNICIPALITIES - NUMERICAL	
1. Assiniboia	165. Moose	351. Hearts Hill	1. Assiniboia
2. Brandon	166. Morden	352. Lethbridge	2. Brandon
3. Regina	167. North Battleford	353. Medicine Hat	3. Regina
4. Winnipeg	168. Oxbow	354. Morden	4. Winnipeg
5. Yorkton	169. Pelly	355. North Battleford	5. Yorkton
6. Humboldt	170. Pelly	356. Oxbow	6. Humboldt
7. Lloydminster	171. Pelly	357. Pelly	7. Lloydminster
8. Swift Current	172. Pelly	358. Pelly	8. Swift Current
9. Estevan	173. Pelly	359. Pelly	9. Estevan
10. Yorkton	174. Pelly	360. Pelly	10. Yorkton
11. Regina	175. Pelly	361. Pelly	11. Regina
12. Brandon	176. Pelly	362. Pelly	12. Brandon
13. Assiniboia	177. Pelly	363. Pelly	13. Assiniboia
14. Winnipeg	178. Pelly	364. Pelly	14. Winnipeg
15. Yorkton	179. Pelly	365. Pelly	15. Yorkton
16. Humboldt	180. Pelly	366. Pelly	16. Humboldt
17. Lloydminster	181. Pelly	367. Pelly	17. Lloydminster
18. Swift Current	182. Pelly	368. Pelly	18. Swift Current
19. Estevan	183. Pelly	369. Pelly	19. Estevan
20. Yorkton	184. Pelly	370. Pelly	20. Yorkton
21. Regina	185. Pelly	371. Pelly	21. Regina
22. Brandon	186. Pelly	372. Pelly	22. Brandon
23. Assiniboia	187. Pelly	373. Pelly	23. Assiniboia
24. Winnipeg	188. Pelly	374. Pelly	24. Winnipeg
25. Yorkton	189. Pelly	375. Pelly	25. Yorkton
26. Humboldt	190. Pelly	376. Pelly	26. Humboldt
27. Lloydminster	191. Pelly	377. Pelly	27. Lloydminster
28. Swift Current	192. Pelly	378. Pelly	28. Swift Current
29. Estevan	193. Pelly	379. Pelly	29. Estevan
30. Yorkton	194. Pelly	380. Pelly	30. Yorkton
31. Regina	195. Pelly	381. Pelly	31. Regina
32. Brandon	196. Pelly	382. Pelly	32. Brandon
33. Assiniboia	197. Pelly	383. Pelly	33. Assiniboia
34. Winnipeg	198. Pelly	384. Pelly	34. Winnipeg
35. Yorkton	199. Pelly	385. Pelly	35. Yorkton
36. Humboldt	200. Pelly	386. Pelly	36. Humboldt
37. Lloydminster	201. Pelly	387. Pelly	37. Lloydminster
38. Swift Current	202. Pelly	388. Pelly	38. Swift Current
39. Estevan	203. Pelly	389. Pelly	39. Estevan
40. Yorkton	204. Pelly	390. Pelly	40. Yorkton
41. Regina	205. Pelly	391. Pelly	41. Regina
42. Brandon	206. Pelly	392. Pelly	42. Brandon
43. Assiniboia	207. Pelly	393. Pelly	43. Assiniboia
44. Winnipeg	208. Pelly	394. Pelly	44. Winnipeg
45. Yorkton	209. Pelly	395. Pelly	45. Yorkton
46. Humboldt	210. Pelly	396. Pelly	46. Humboldt
47. Lloydminster	211. Pelly	397. Pelly	47. Lloydminster
48. Swift Current	212. Pelly	398. Pelly	48. Swift Current
49. Estevan	213. Pelly	399. Pelly	49. Estevan
50. Yorkton	214. Pelly	400. Pelly	50. Yorkton
51. Regina	215. Pelly	401. Pelly	51. Regina
52. Brandon	216. Pelly	402. Pelly	52. Brandon
53. Assiniboia	217. Pelly	403. Pelly	53. Assiniboia
54. Winnipeg	218. Pelly	404. Pelly	54. Winnipeg
55. Yorkton	219. Pelly	405. Pelly	55. Yorkton
56. Humboldt	220. Pelly	406. Pelly	56. Humboldt
57. Lloydminster	221. Pelly	407. Pelly	57. Lloydminster
58. Swift Current	222. Pelly	408. Pelly	58. Swift Current
59. Estevan	223. Pelly	409. Pelly	59. Estevan
60. Yorkton	224. Pelly	410. Pelly	60. Yorkton
61. Regina	225. Pelly	411. Pelly	61. Regina
62. Brandon	226. Pelly	412. Pelly	62. Brandon
63. Assiniboia	227. Pelly	413. Pelly	63. Assiniboia
64. Winnipeg	228. Pelly	414. Pelly	64. Winnipeg
65. Yorkton	229. Pelly	415. Pelly	65. Yorkton
66. Humboldt	230. Pelly	416. Pelly	66. Humboldt
67. Lloydminster	231. Pelly	417. Pelly	67. Lloydminster
68. Swift Current	232. Pelly	418. Pelly	68. Swift Current
69. Estevan	233. Pelly	419. Pelly	69. Estevan
70. Yorkton	234. Pelly	420. Pelly	70. Yorkton
71. Regina	235. Pelly	421. Pelly	71. Regina
72. Brandon	236. Pelly	422. Pelly	72. Brandon
73. Assiniboia	237. Pelly	423. Pelly	73. Assiniboia
74. Winnipeg	238. Pelly	424. Pelly	74. Winnipeg
75. Yorkton	239. Pelly	425. Pelly	75. Yorkton
76. Humboldt	240. Pelly	426. Pelly	76. Humboldt
77. Lloydminster	241. Pelly	427. Pelly	77. Lloydminster
78. Swift Current	242. Pelly	428. Pelly	78. Swift Current
79. Estevan	243. Pelly	429. Pelly	79. Estevan
80. Yorkton	244. Pelly	430. Pelly	80. Yorkton
81. Regina	245. Pelly	431. Pelly	81. Regina
82. Brandon	246. Pelly	432. Pelly	82. Brandon
83. Assiniboia	247. Pelly	433. Pelly	83. Assiniboia
84. Winnipeg	248. Pelly	434. Pelly	84. Winnipeg
85. Yorkton	249. Pelly	435. Pelly	85. Yorkton
86. Humboldt	250. Pelly	436. Pelly	86. Humboldt
87. Lloydminster	251. Pelly	437. Pelly	87. Lloydminster
88. Swift Current	252. Pelly	438. Pelly	88. Swift Current
89. Estevan	253. Pelly	439. Pelly	89. Estevan
90. Yorkton	254. Pelly	440. Pelly	90. Yorkton
91. Regina	255. Pelly	441. Pelly	91. Regina
92. Brandon	256. Pelly	442. Pelly	92. Brandon
93. Assiniboia	257. Pelly	443. Pelly	93. Assiniboia
94. Winnipeg	258. Pelly	444. Pelly	94. Winnipeg
95. Yorkton	259. Pelly	445. Pelly	95. Yorkton
96. Humboldt	260. Pelly	446. Pelly	96. Humboldt
97. Lloydminster	261. Pelly	447. Pelly	97. Lloydminster
98. Swift Current	262. Pelly	448. Pelly	98. Swift Current
99. Estevan	263. Pelly	449. Pelly	99. Estevan
100. Yorkton	264. Pelly	450. Pelly	100. Yorkton



- 6. West Calgary
- 7. Red Deer
- 8. Battle River
- 9. Victoria
- 10. Strathcona
- 11. East Edmonton
- 12. West Edmonton

MUNICIPALITIES - ALPHABETICAL		MUNICIPALITIES - NUMERICAL	
Alberta	16	McCreary	95
Arctic	80	Norfolk North	37
Arctic	81	Norfolk South	38
Arctic	82	Oakland	28
Arctic	83	Ochre River	106
Arctic	84	Odessa	74
Arctic	85	Okotoks	32
Arctic	86	Papineau	45
Arctic	87	Parkland	10
Arctic	88	Parkland Prairie	10
Arctic	89	Parkland	10
Arctic	90	Parkland	10
Arctic	91	Parkland	10
Arctic	92	Parkland	10
Arctic	93	Parkland	10
Arctic	94	Parkland	10
Arctic	95	Parkland	10
Arctic	96	Parkland	10
Arctic	97	Parkland	10
Arctic	98	Parkland	10
Arctic	99	Parkland	10
Arctic	100	Parkland	10



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MAN SASK - ALTA.

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CHIEF COMMISSIONER

Census June 1916

№ 17

Graph - Rural Population by Townships; Federal

Also showing by Federal Constituencies Annual Output, Grain, Stock
There are 43 Federal Constituencies in the 3 Prairie Provinces. The rank locates the subject.

Rural Population in Sequence.

	Total	1921	1926	1931	1936	1941
4 Maple Creek	42,181					
5 Swift Current	40,089					
6 Humboldt	"					
7 Mackenzie	37,599					
9 Last Mountain	35,516					
10 North Battleford	33,263					
14 Kindersley	31,407					
15 Prince Albert	31,264					
17 Saultcoats	29,446					
19 Weyburn	28,308					
20 Assiniboia	26,115					
25 Qu'Appelle	25,010					
23 Battleford	23,972					
31 Saskatoon	23,800					
39 Regina	12,102					

Male: 12,102

Total Bush Wheat	Man.	Jack.	Alfa.
360 177.82	69.24.225	224.31.568	66.538.001
100 %	19.23 %	62.29 %	18.48 %

Rank, Constituencies

Scale 1° = 4% or 14,407,112 Bushels

1 Swift Current	8.67
2 Milderley	7.217
3 Flame Creek	6.77
4 Last Mountain	6.250
5 Wapiti	4.762
6 Milderley	4.070
7 Milderley	4.022
8 L. S. S.	3.539
9 L. S. S.	3.502
10 L. S. S.	3.068
11 L. S. S.	2.219
12 L. S. S.	2.158
13 L. S. S.	1.819
14 L. S. S.	1.701
15 L. S. S.	1.223
16 L. S. S.	0.969

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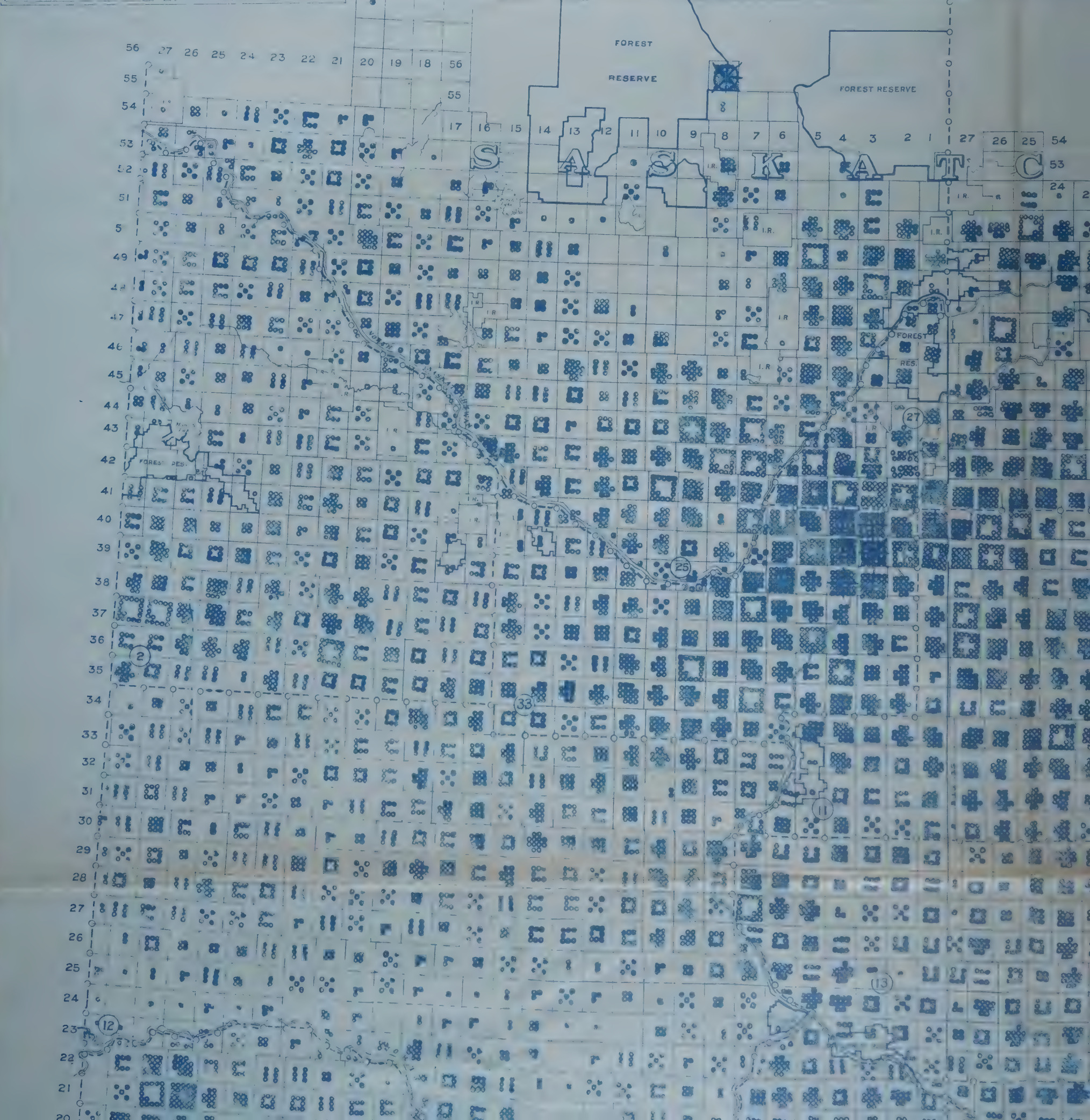
Value in % of Annual Output per unit of Rural Population.

	1957-59	1960-62	1963-65	1966-68
Barb. Grazingsteens	330.0	596.3	377.7	34
Scale: 1" = 60 Miles				
1. Kendersey			6,181.57	
2. S. S. Cartwright			837.26	
3. L. S. P. Mountain			752.29	
4. W. G. M.			12.12	
5. W. G. M.			1.15	
6. W. G. M.			0.5	
7. W. G. M.			0.5	
8. W. G. M.			0.5	
9. W. G. M.			0.5	
10. W. G. M.			0.5	
11. W. G. M.			0.5	
12. W. G. M.			0.5	
13. W. G. M.			0.5	
14. W. G. M.			0.5	
15. W. G. M.			0.5	
16. W. G. M.			0.5	
17. W. G. M.			0.5	
18. W. G. M.			0.5	
19. W. G. M.			0.5	
20. W. G. M.			0.5	
21. W. G. M.			0.5	
22. W. G. M.			0.5	
23. W. G. M.			0.5	
24. W. G. M.			0.5	
25. W. G. M.			0.5	
26. W. G. M.			0.5	
27. W. G. M.			0.5	
28. W. G. M.			0.5	
29. W. G. M.			0.5	
30. W. G. M.			0.5	
31. W. G. M.			0.5	
32. W. G. M.			0.5	

Total Bush Oats	Man.	Sack	Alto
279,635.693	50,485.544	145,065.500	83,875.639
100%	10.15%	51.88%	29.99%

Rank; Const/Inventories	Scale: 1" = 2% or 5.532.136 %
1 Mackenzie	4.487
2 Nindorsteley	4.384
3 Galt, J. J.	4.483
5 J. W. J. J. J.	4.398
6 J. J. J. J.	4.393
7 J. J. J. J.	4.410
12 J. J. J. J.	3.626
14 J. J. J. J.	3.527
15 J. J. J. J.	2.777
19 J. J. J. J.	2.342
22 J. J. J. J.	1.982
23 J. J. J. J.	1.480
24 J. J. J. J.	1.662
25 J. J. J. J.	1.478
26 J. J. J. J.	3.389

Number of Bats per Night		Date	
Bats per Night	Man	Dark	At
10/10 42-32	36.6	43.43	42
Area: 400000		Scale: 1" = 30 Bushels	
2 Maple Creek			5
3 Butterfield			5
5 Anderson			31
6 Maple Hill			31
8 1/2 mi. S. of Mt. St. Helens			
14 1/2 mi. S. of Mt. St. Helens			
15 1/2 mi. S. of Mt. St. Helens			41
20 1/2 mi. S. of Mt. St. Helens			39
23 1/2 mi. S. of Mt. St. Helens			39
24 1/2 mi. S. of Mt. St. Helens			39
25 1/2 mi. S. of Mt. St. Helens			34
26 1/2 mi. S. of Mt. St. Helens			34
35 1/2 mi. S. of Mt. St. Helens			34
36 1/2 mi. S. of Mt. St. Helens			34
37 1/2 mi. S. of Mt. St. Helens			34
40 1/2 mi. S. of Mt. St. Helens			34



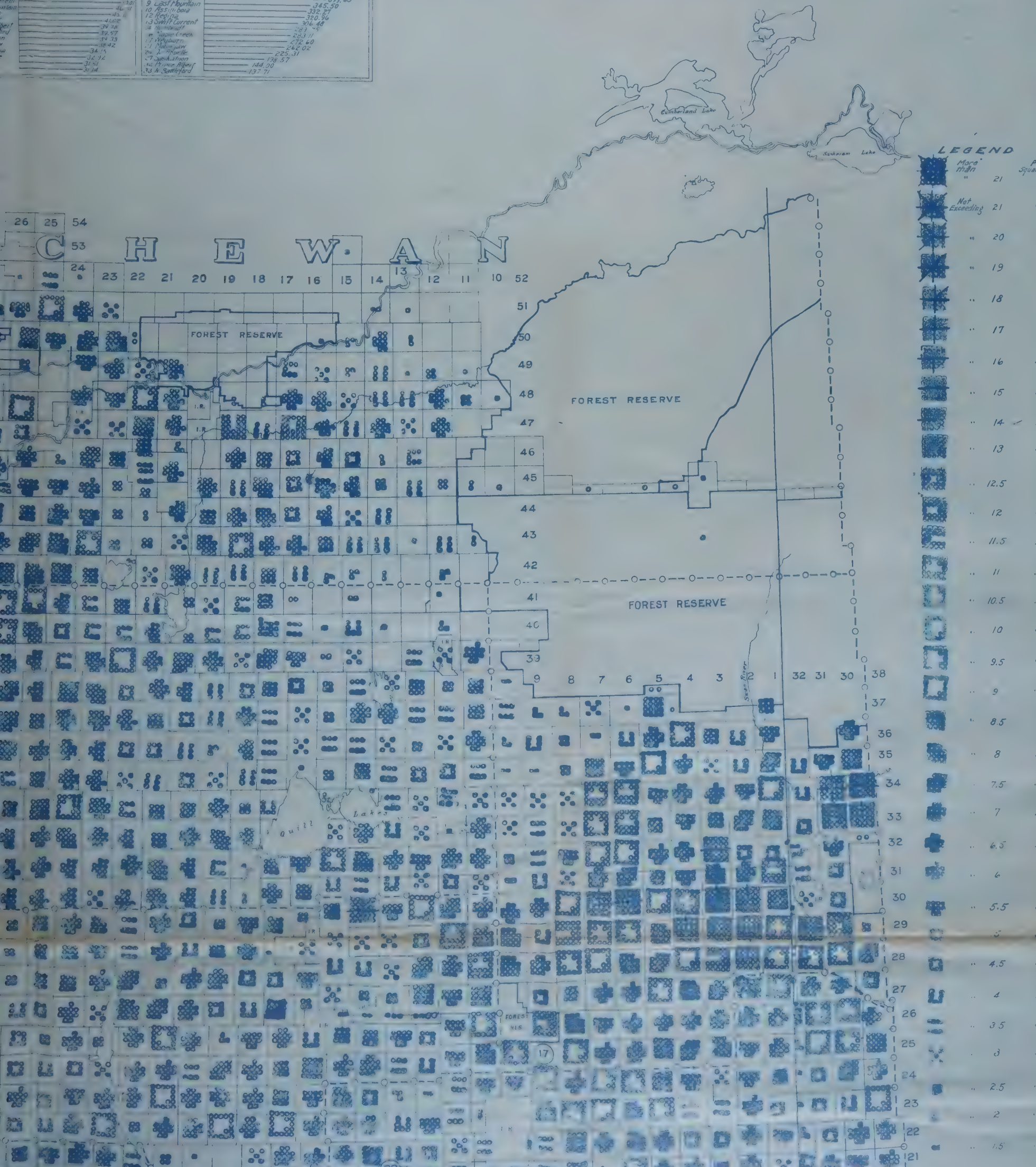
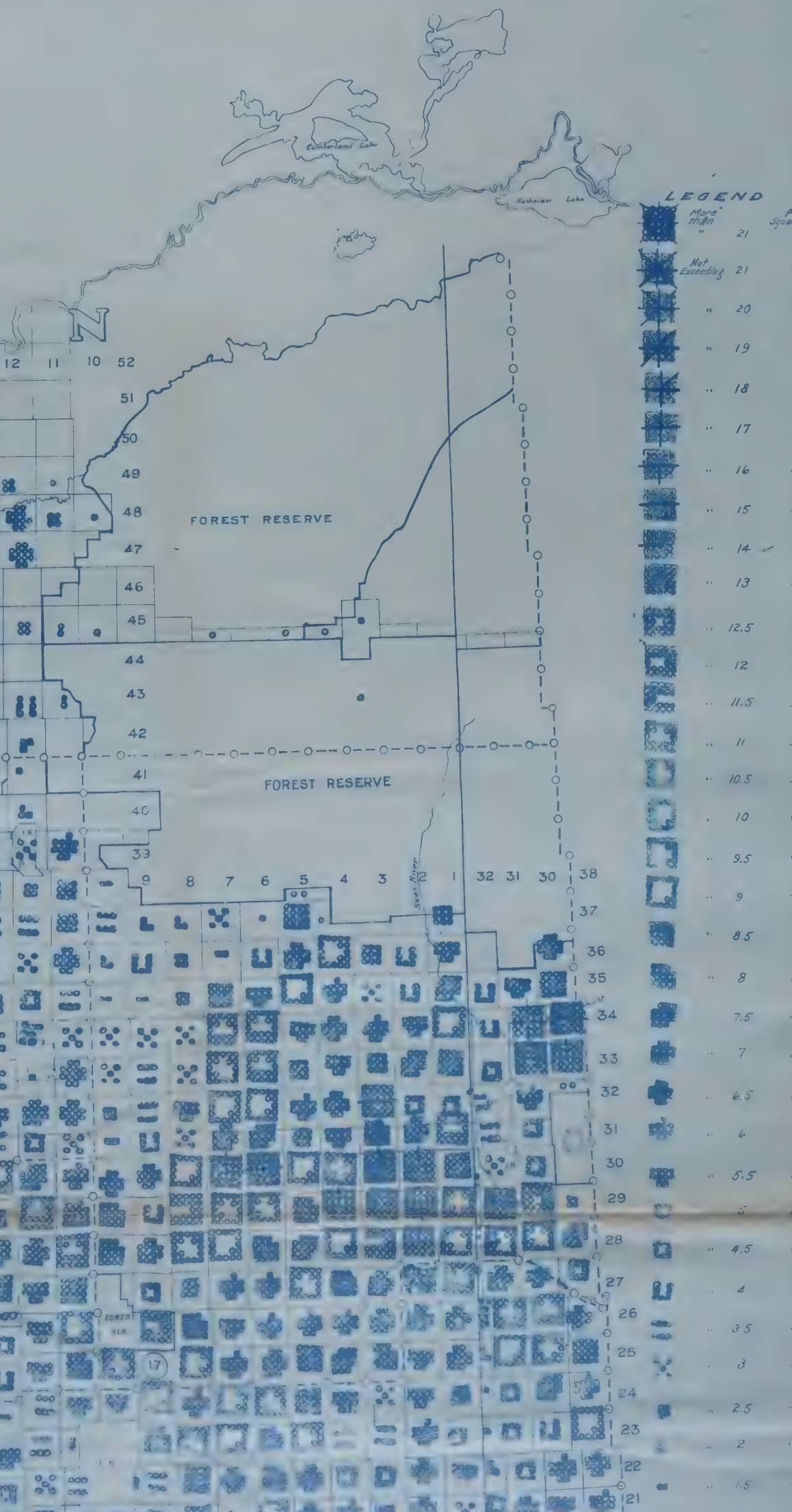
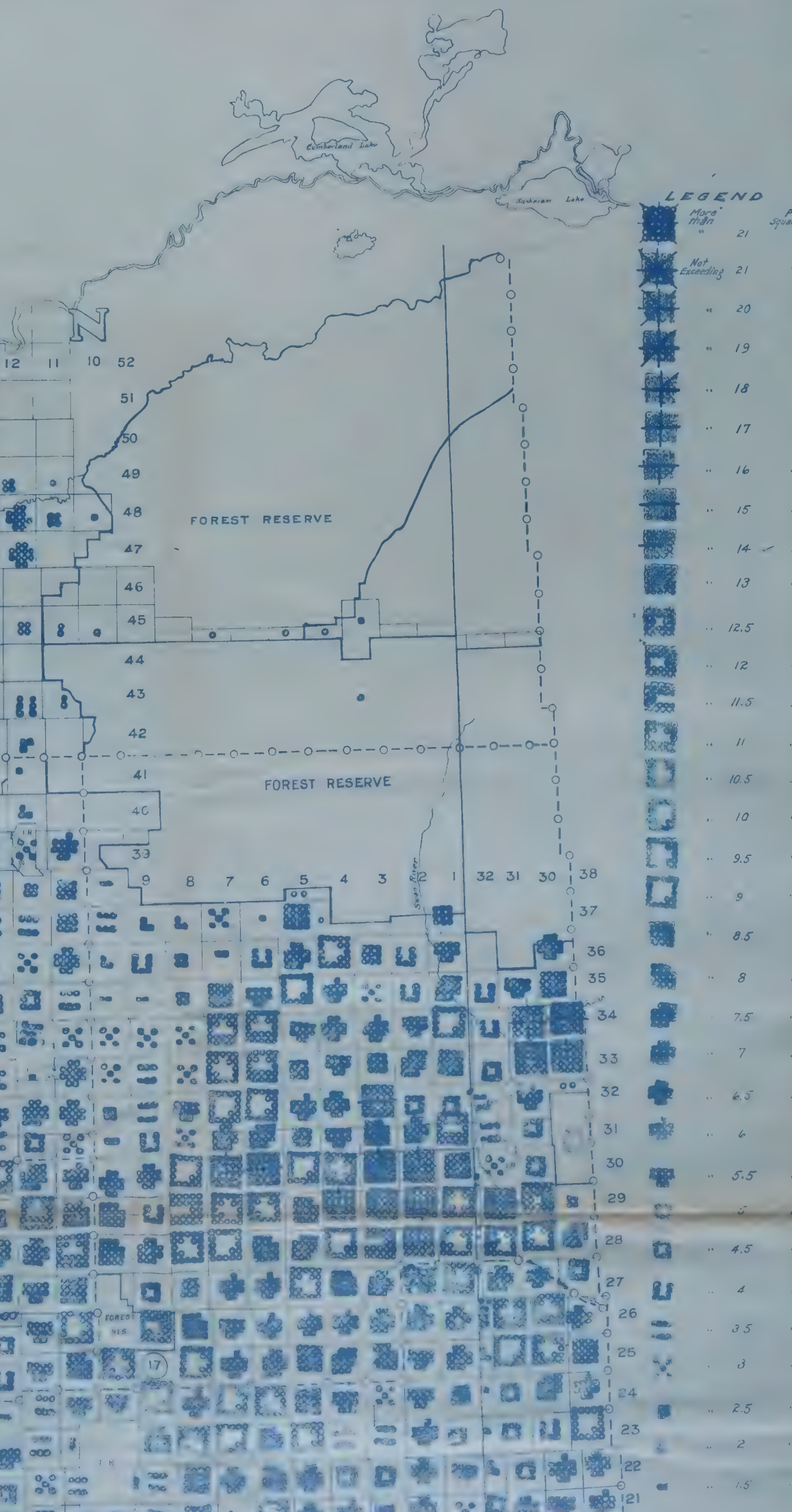
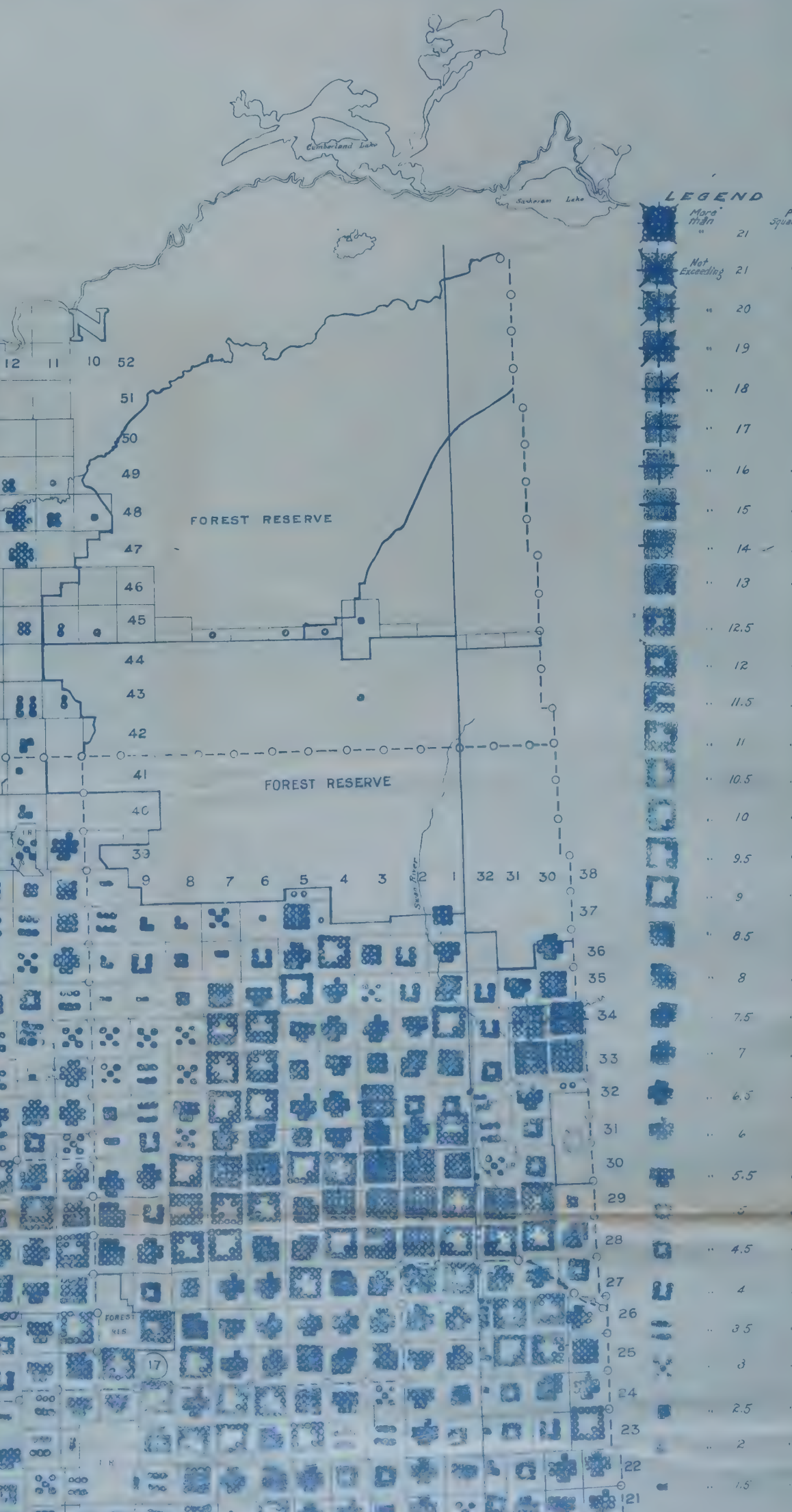
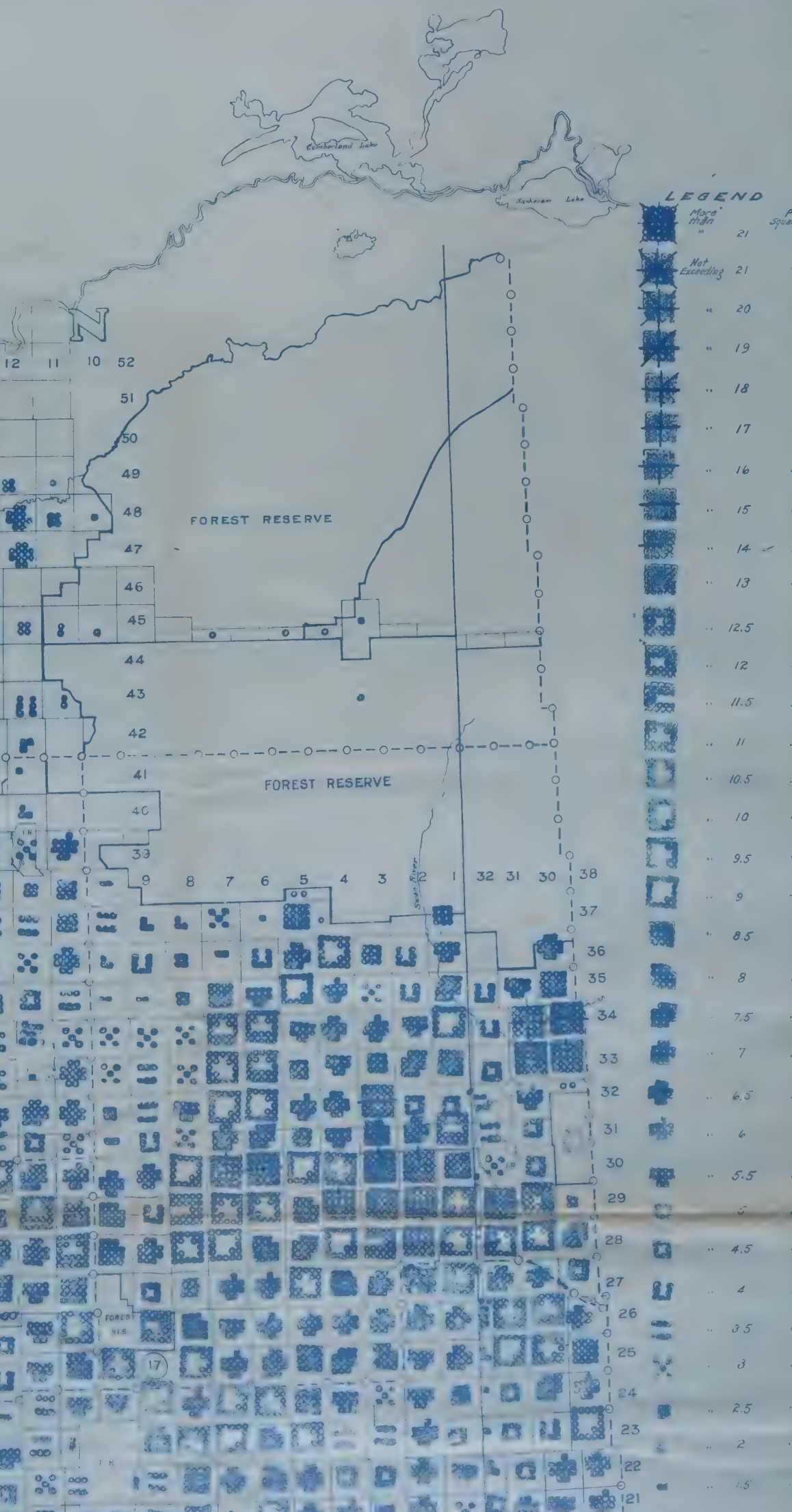
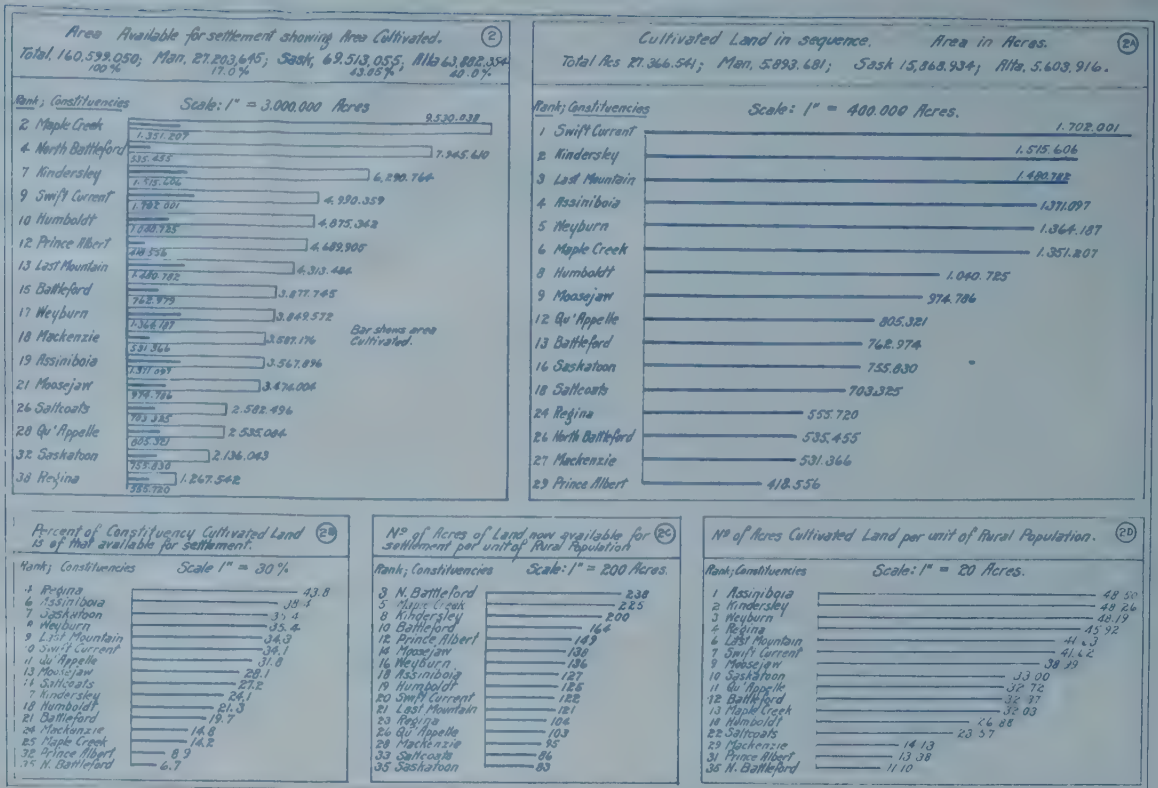
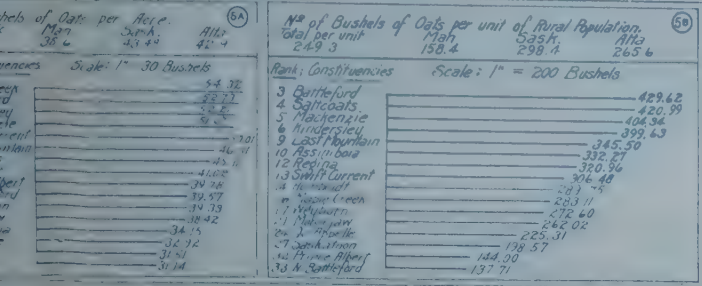
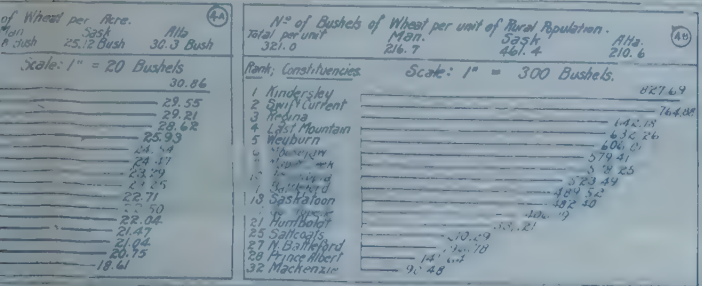
RAILWAY COMPANY

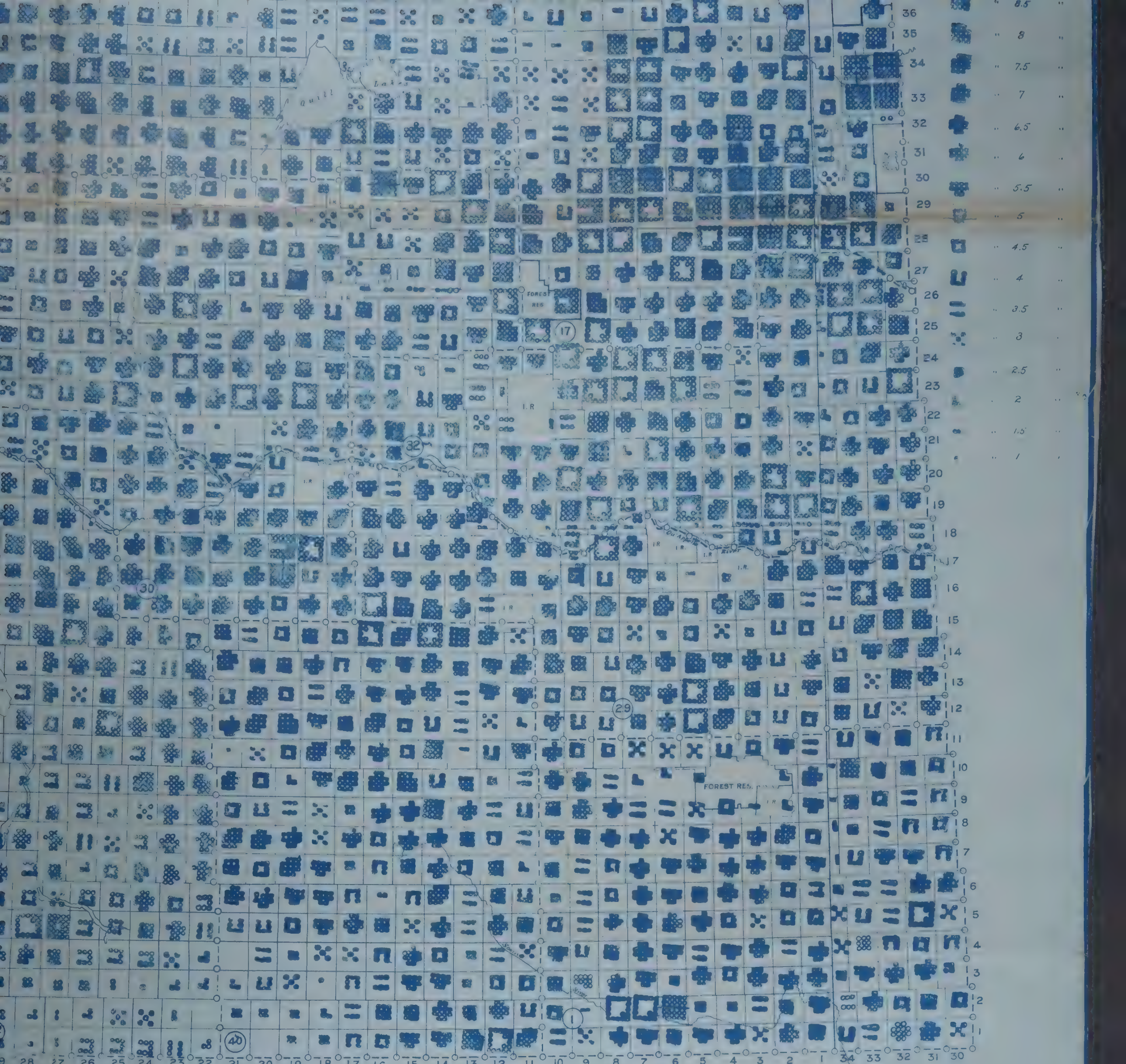
DEVELOPMENT BRANCH

S. DENNIS
COMMISSIONER

PREPARED BY W. PEARSON
Calgary, 25th Jan. 1916

June 1916
Townships; Federal Constituencies.
Output, Grain, Stock, Cultivated Land, Lands open for entry etc. etc.
The rank locates the subject treated for the whole of the said Provinces.





Nº of Bushes of Flax per unit of Rural Pop.
Total Bushes per unit: 1.33; Man: 53.5%; Sask: 1.09; Alta: 1.91

Scale: 1" = 30 Bushels

Rank	Constituencies	Scale: 1" = 30 Bushels
1	Maple Creek	59.34
2	Maple Creek	57.1
3	Maple Creek	56.5
4	Maple Creek	56.5
5	Maple Creek	56.5
6	Maple Creek	56.5
7	Maple Creek	56.5
8	Maple Creek	56.5
9	Maple Creek	56.5
10	Maple Creek	56.5
11	Maple Creek	56.5
12	Maple Creek	56.5
13	Maple Creek	56.5
14	Maple Creek	56.5
15	Maple Creek	56.5
16	Maple Creek	56.5
17	Maple Creek	56.5
18	Maple Creek	56.5
19	Maple Creek	56.5
20	Maple Creek	56.5
21	Maple Creek	56.5
22	Maple Creek	56.5
23	Maple Creek	56.5
24	Maple Creek	56.5
25	Maple Creek	56.5
26	Maple Creek	56.5
27	Maple Creek	56.5
28	Maple Creek	56.5
29	Maple Creek	56.5
30	Maple Creek	56.5

Total Nº of Horses.
Total: 1,794,926; Man: 323,357; Sask: 611,307; Alta: 629,442

Scale: 1" = 60,000

Rank	Constituencies	Scale: 1" = 60,000
1	Maple Creek	109,752
2	Maple Creek	77,399
3	Maple Creek	64,761
4	Maple Creek	60,820
5	Maple Creek	60,225
6	Maple Creek	58,270
7	Maple Creek	56,071
8	Maple Creek	52,183
9	Maple Creek	50,046
10	Maple Creek	49,703
11	Maple Creek	43,568
12	Maple Creek	37,138
13	Maple Creek	35,592
14	Maple Creek	32,133
15	Maple Creek	30,230
16	Maple Creek	27,648

Nº of Horses per unit of Rural Population.
Total Horses per unit: 1.60; Man: 1.41; Sask: 1.73; Alta: 1.99

Scale: 1" = 1 Horse

Rank	Constituencies	Scale: 1" = 1 Horse
1	Maple Creek	2.60
2	Maple Creek	2.29
3	Maple Creek	2.17
4	Maple Creek	2.12
5	Maple Creek	2.06
6	Maple Creek	1.92
7	Maple Creek	1.89
8	Maple Creek	1.85
9	Maple Creek	1.82
10	Maple Creek	1.68
11	Maple Creek	1.40
12	Maple Creek	1.28
13	Maple Creek	1.07
14	Maple Creek	0.99
15	Maple Creek	0.97

Total Nº of Cattle.
Total: 1,225,476; Man: 394,193; Sask: 411,000; Alta: 420,283

Scale: 1" = 40,000

Rank	Constituencies	Scale: 1" = 40,000
1	Maple Creek	95,712
2	Maple Creek	83,499
3	Maple Creek	80,701
4	Maple Creek	77,399
5	Maple Creek	76,480
6	Maple Creek	72,182
7	Maple Creek	69,252
8	Maple Creek	68,709
9	Maple Creek	67,260
10	Maple Creek	64,912
11	Maple Creek	55,348
12	Maple Creek	53,378
13	Maple Creek	44,428
14	Maple Creek	44,603
15	Maple Creek	35,479
16	Maple Creek	21,352

Nº of Cattle per unit of Rural Population.
Total Cattle per unit: 2.41; Man: 1.47; Sask: 2.08; Alta: 3.67

Scale: 1" = 1 Head

Rank	Constituencies	Scale: 1" = 1 Head
1	Maple Creek	2.75
2	Maple Creek	2.71
3	Maple Creek	2.67
4	Maple Creek	2.61
5	Maple Creek	2.57
6	Maple Creek	2.51
7	Maple Creek	2.46
8	Maple Creek	2.41
9	Maple Creek	2.36
10	Maple Creek	2.31
11	Maple Creek	2.26
12	Maple Creek	2.21
13	Maple Creek	2.16
14	Maple Creek	2.11
15	Maple Creek	2.06
16	Maple Creek	2.01
17	Maple Creek	1.96
18	Maple Creek	1.91
19	Maple Creek	1.86
20	Maple Creek	1.81
21	Maple Creek	1.76
22	Maple Creek	1.71
23	Maple Creek	1.66
24	Maple Creek	1.61
25	Maple Creek	1.56
26	Maple Creek	1.51
27	Maple Creek	1.46
28	Maple Creek	1.41
29	Maple Creek	1.36
30	Maple Creek	1.31

of Pigs per unit of Rural Population.
Pigs per unit: 1.1; Man: .64; Sask: 1.09; Alta: 1.91

Scale: 1" = 1 Pig

Rank	Constituencies	Scale: 1" = 1 Pig
1	Maple Creek	1.45
2	Maple Creek	1.35
3	Maple Creek	1.24
4	Maple Creek	1.24
5	Maple Creek	1.13
6	Maple Creek	1.04
7	Maple Creek	1.03
8	Maple Creek	0.99
9	Maple Creek	0.98
10	Maple Creek	0.94
11	Maple Creek	0.91
12	Maple Creek	0.87

Railway Mileage in Sequence not including double track.
Total: 1,713.7; Man: 447.5; Sask: 405; Alta: 461.2

Scale: 1" = 300 Miles

Rank	Constituencies	Scale: 1" = 300 Miles
1	Maple Creek	97
2	Maple Creek	91
3	Maple Creek	82
4	Maple Creek	77
5	Maple Creek	71
6	Maple Creek	65
7	Maple Creek	60
8	Maple Creek	55
9	Maple Creek	50
10	Maple Creek	45
11	Maple Creek	40
12	Maple Creek	35
13	Maple Creek	30
14	Maple Creek	25
15	Maple Creek	20
16	Maple Creek	15
17	Maple Creek	10
18	Maple Creek	5
19	Maple Creek	5
20	Maple Creek	5
21	Maple Creek	5
22	Maple Creek	5
23	Maple Creek	5
24	Maple Creek	5
25	Maple Creek	5
26	Maple Creek	5
27	Maple Creek	5
28	Maple Creek	5
29	Maple Creek	5
30	Maple Creek	5

Rural Population per Mile of Railway.
Total: 1,713.7; Man: 447.5; Sask: 405; Alta: 461.2

Scale: 1" = 100

Rank	Constituencies	Scale: 1" = 100
1	Maple Creek	136.51
2	Maple Creek	124.50
3	Maple Creek	119.21
4	Maple Creek	113.90
5	Maple Creek	108.59
6	Maple Creek	103.28
7	Maple Creek	97.97
8	Maple Creek	92.66
9	Maple Creek	87.35
10	Maple Creek	82.04
11	Maple Creek	76.73
12	Maple Creek	71.42
13	Maple Creek	66.11
14	Maple Creek	60.80
15	Maple Creek	55.49
16	Maple Creek	50.18
17	Maple Creek	44.87
18	Maple Creek	39.56
19	Maple Creek	34.25
20	Maple Creek	28.94
21	Maple Creek	23.63
22	Maple Creek	18.32
23	Maple Creek	13.01
24	Maple Creek	7.70
25	Maple Creek	2.39
26	Maple Creek	2.39
27	Maple Creek	2.39
28	Maple Creek	2.39
29	Maple Creek	2.39
30	Maple Creek	2.39

Output per Mile of Railway.
Total: 1,713.7; Man: 447.5; Sask: 405; Alta: 461.2

Scale: 1" = 40,000

Rank	Constituencies	Scale: 1" = 40,000
1	Maple Creek	101,231.42
2	Maple Creek	88,184.36
3	Maple Creek	80,135.30
4	Maple Creek	72,086.24
5	Maple Creek	64,037.18
6	Maple Creek	55,988.12
7	Maple Creek	47,939.06
8	Maple Creek	39,889.99
9	Maple Creek	31,840.93
10	Maple Creek	23,791.87
11	Maple Creek	15,742.81
12	Maple Creek	7,693.75
13	Maple Creek	2,644.69
14	Maple Creek	2,644.69
15	Maple Creek	2,644.69
16	Maple Creek	2,644.69
17	Maple Creek	2,644.69
18	Maple Creek	2,644.69
19	Maple Creek	2,644.69
20	Maple Creek	2,644.69
21	Maple Creek	2,644.69
22	Maple Creek	2,644.69
23	Maple Creek	2,644.69
24	Maple Creek	2,644.69
25	Maple Creek	2,644.69
26	Maple Creek	2,644.69
27	Maple Creek	2,644.69
28	Maple Creek	2,644.69
29	Maple Creek	2,644.69
30	Maple Creek	2,644.69

Annual Output per Farm.
Total: 1,713.7; Man: 447.5; Sask: 405; Alta: 461.2

Scale: 1" = 2000

Rank	Constituencies	Scale: 1" = 2000
1	Maple Creek	1,713.7
2	Maple Creek	1,713.7
3	Maple Creek	1,713.7
4	Maple Creek	1,713.7
5	Maple Creek	1,713.7
6	Maple Creek	1,713.7
7	Maple Creek	1,713.7
8	Maple Creek	1,713.7
9	Maple Creek	1,713.7
10	Maple Creek	1,713.7
11	Maple Creek	1,713.7
12	Maple Creek	1,713.7
13	Maple Creek	1,713.7
14	Maple Creek	1,713.7
15	Maple Creek	1,713.7
16	Maple Creek	1,713.7
17	Maple Creek	1,713.7
18	Maple Creek	1,713.7
19	Maple Creek	1,713.7
20	Maple Creek	1,713.7
21	Maple Creek	1,713.7
22	Maple Creek	1,713.7
23	Maple Creek	1,713.7
24	Maple Creek	1,713.7
25	Maple Creek	1,713.7
26	Maple Creek	1,713.7
27	Maple Creek	1,713.7
28	Maple Creek	1,713.7
29	Maple Creek	1,713.7
30	Maple Creek	1,713.7

per Farm.
Total: 1,713.7; Man: 447.5; Sask: 405; Alta: 461.2

Scale: 1" = 10

Rank	Constituencies	Scale: 1" = 10
1	Maple Creek	171.37
2	Maple Creek	171.37
3	Maple Creek	171.37
4	Maple Creek	171.37
5	Maple Creek	171.37
6	Maple Creek	171.37
7	Maple Creek	171.37
8	Maple Creek	171.37
9	Maple Creek	171.37
10	Maple Creek	171.37
11	Maple Creek	171.37
12	Maple Creek	171.37
13	Maple Creek	171.37
14	Maple Creek	171.37
15	Maple Creek	171.37
16	Maple Creek	171.37
17	Maple Creek	171.37
18	Maple Creek	171.37
19	Maple Creek	171.37
20	Maple Creek	171.37
21	Maple Creek	171.37
22	Maple Creek	171.37
23	Maple Creek	171.37
24	Maple Creek	171.37
25	Maple Creek	171.37
26	Maple Creek	171.37
27	Maple Creek	171.37
28	Maple Creek	171.37
29	Maple Creek	171.37
30	Maple Creek	171.37

Sheep per Farm.
Total: 1,713.7; Man: 447.5; Sask: 405; Alta: 461.2

Scale: 1" = 10

Rank	Constituencies	Scale: 1" = 10
1	Maple Creek	171.37
2	Maple Creek	171.37
3	Maple Creek	171.37
4	Maple Creek	171.37
5	Maple Creek	171.37
6	Maple Creek	171.37
7	Maple Creek	171.37
8	Maple Creek	171.37
9	Maple Creek	171.37
10	Maple Creek	171.37
11	Maple Creek	171.37
12	Maple Creek	171.37
13	Maple Creek	171.37
14	Maple Creek	171.37
15	Maple Creek	171.37
16	Maple Creek	171.37
17	Maple Creek	171.37
18	Maple Creek	171.37
19	Maple Creek	171.37
20	Maple Creek	171.37
21	Maple Creek	171.37
22	Maple Creek	171.37
23	Maple Creek	171.37
24	Maple Creek	171.37
25	Maple Creek	171.37
26	Maple Creek	171.37
27	Maple Creek	171.37
28	Maple Creek	171.37
29	Maple Creek	171.37
30	Maple Creek	171.37

Pigs per Farm.
Total: 1,713.7; Man: 447.5; Sask: 405; Alta: 461.2

Scale: 1" = 10

Rank	Constituencies	Scale: 1" = 10
1	Maple Creek	17.137
2	Maple Creek	17.137
3	Maple Creek	17.137
4	Maple Creek	17.137
5	Maple Creek	17.137
6	Maple Creek	17.137
7	Maple Creek	17.137
8	Maple Creek	17.137
9	Maple Creek	17.137
10	Maple Creek	17.137
11	Maple Creek	17.137
12	Maple Creek	17.137
13	Maple Creek	17.137
14	Maple Creek	17.137
15	Maple Creek	17.137
16	Maple Creek	17.137
17	Maple Creek	17.137
18	Maple Creek	17.137
19	Maple Creek	17.137
20	Maple Creek	17.137
21	Maple Creek	17.137
22	Maple Creek	17.137
23	Maple Creek	17.137
24	Maple Creek	17.137
25	Maple Creek	17.137
26	Maple Creek	17.137
27	Maple Creek	17.137
28	Maple Creek	17.137
29	Maple Creek	17.137
30	Maple Creek	17.137

Rank	Constituencies	Scale: 1" = 10
1	Maple Creek	17.137
2	Maple Creek	17.137
3	Maple Creek	17.137
4	Maple Creek	17.137
5	Maple Creek	17.137
6	Maple Creek	17.137
7	Maple Creek	17.137
8	Maple Creek	17.137
9	Maple Creek	17.137
10	Maple Creek	17.137
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18	Maple Creek	17.137
19	Maple Creek	17.137
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31	Maple Creek	17.137
32	Maple Creek	17.137
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34	Maple Creek	17.137
35	Maple Creek	17.137
36	Maple Creek	17.137
37	Maple Creek	17.137
38	Maple Creek	17.137
39	Maple Creek	17.137
40	Maple Creek	17.137
41	Maple Creek	17.137
42	Maple Creek	17.137
43	Maple Creek	17.137
44	Maple Creek	17.137
45	Maple Creek	17.137
46	Maple Creek	17.137
47	Maple Creek	17.137
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49	Maple Creek	17.137
50	Maple Creek	17.137
51	Maple Creek	17.137
52	Maple Creek	17.137
53	Maple Creek	17.137
54	Maple Creek	17.137
55	Maple Creek	17.137
56	Maple Creek	17.137
57	Maple Creek	17.137
58	Maple Creek	17.137
59	Maple Creek	17.137
60	Maple Creek	17.137
61	Maple Creek	17.137
62	Maple Creek	17.137
63	Maple Creek	17.137
64	Maple Creek	17.137
65	Maple Creek	17.137
66	Maple Creek	17.137
67	Maple Creek	17.137
68	Maple Creek	17.137
69	Maple Creek	17.137
70	Maple Creek	17.137
71	Maple Creek	17.137
72	Maple Creek	17.137
73	Maple Creek	17.137
74	Maple Creek	17.137
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81	Maple Creek	17.137
82	Maple Creek	17.137
83	Maple Creek	17.137
84	Maple Creek	17.137
85	Maple Creek	17.137
86	Maple Creek	17.137
87	Maple Creek	17.137
88	Maple Creek	17.137
89	Maple Creek	17.137
90	Maple Creek	17.137
91	Maple Creek	17.137
92	Maple Creek	17.137
93	Maple Creek	17.137
94	Maple Creek	17.137
95	Maple Creek	17.137
96	Maple Creek	17.137
97	Maple Creek	17.137
98	Maple Creek	17.137
99	Maple Creek	17.137
100	Maple Creek	17.137



Total Bush Barley
35.3% 112
100%

Man 16,514,445; 9,322,847
46.26% 26.45%

Sask 9,821,820
27.27%

Alta 9,821,820
27.27%

Rank/Constituencies Scale: 1" = 2% of 719,322

8 Assiniboia	3,635
14 Humboldt	2,270
18 Battleford	2,094
19 Qu'Appelle	1,810
22 Prince Albert	1,759
23 MacKenzie	1,644
24 Last Mountain	1,580
25 Weyburn	1,444
28 Saltcoats	1,289
30 Saskatchewan	1,289
31 Kindersley	1,105
32 Swift Current	1,057
33 N. Battleford	0,957
37 Maple Creek	0,463
40 Regina	

Bushels of Barley per Acre
Bush per acre
Total 30.56

Man 29.4
Sask 31.47
Alta 31.63

Rank/Constituencies Scale: 1" = 20 Bushels

2 Humboldt	40.10
3 Kindersley	37.15
4 Maple Creek	36.41
9 Swift Current	35.72
10 MacKenzie	35.63
14 Last Mountain	32.86
17 Saltcoats	31.98
20 Moosejaw	31.16
23 N. Battleford	30.19
26 Saskatchewan	29.42
30 Prince Albert	28.31
31 Assiniboia	28.30
34 Qu'Appelle	27.82
36 Regina	27.05
40 Weyburn	26.05

N° of Bushels of Barley per unit of Rural Pop.
Total Bush per unit
Total 52.09

Man 52.09
Sask 20.47
Alta 31.10

Rank/Constituencies Scale: 1" = 30 Bush

8 Assiniboia	47.06
14 Humboldt	34.59
17 Qu'Appelle	34.66
22 Prince Albert	24.31
24 Saskatchewan	21.43
25 MacKenzie	20.82
26 Weyburn	20.48
29 Saltcoats	17.47
30 Last Mountain	16.85
31 MacKenzie	16.75
32 Moosejaw	15.97
33 N. Battleford	14.78
34 Regina	13.91
36 N. Battleford	11.93
38 Swift Current	10.76
40 Maple Creek	8.19

Total Bush Flax
6,045,363
100%

Man 120,179
1.99%

Sask 5,254,875
86.92%

Alta 670,309
11.09%

Rank/Constituencies Scale: 1" = 400,000

1 Kindersley	1,849,401
2 Maple Creek	1,168,239
3 Swift Current	838,704
4 Moosejaw	558,747
5 Weyburn	239,115
6 Last Mountain	219,290
7 Assiniboia	111,396
11 Battleford	100,750
12 Humboldt	87,178
13 MacKenzie	81,178
16 Qu'Appelle	32,413
17 Regina	18,446
20 Saskatchewan	13,830
22 Prince Albert	12,249
23 Saltcoats	12,440
29 N. Battleford	1,315
32 Prince Albert	1,102
34 MacKenzie	

Bushels of Flax per Acre
Bush per Acre
Total 13.24

Man 8.29
Sask 13.29
Alta 8.31

Rank/Constituencies Scale: 1" = 10 Bushels

2 Kindersley	16.28
3 Maple Creek	14.75
4 Prince Albert	13.70
5 Battleford	13.09
14 Swift Current	13.04
16 MacKenzie	12.21
21 Moosejaw	12.11
22 Last Mountain	11.06
23 Saskatchewan	10.45
27 Qu'Appelle	10.23
29 Saltcoats	9.79
30 Assiniboia	8.24
33 Regina	8.17
33 Weyburn	

Note: N° 18, W. Battleford, having an output of less than five bushels, is not given, as a comparison with the larger producers is unfair.

N° of Bushels of Flax per unit of Rural Pop.
Total Bush per unit
Total 13.24

Man 8.29
Sask 13.29
Alta 8.31

Rank/Constituencies Scale: 1" = 10 Bushels

1 Kindersley	16.28
2 Maple Creek	14.75
3 Prince Albert	13.70
4 Battleford	13.09
14 Swift Current	13.04
16 MacKenzie	12.21
21 Moosejaw	12.11
22 Last Mountain	11.06
23 Saskatchewan	10.45
27 Qu'Appelle	10.23
29 Saltcoats	9.79
30 Assiniboia	8.24
33 Regina	8.17
33 Weyburn	

Total 492,511
100%

Man 14,751
3.0%

Sask 472,281
96.9%

Alta 291,523
59.1%

Rank/Constituencies Scale: 1" = 20,000 Sheep

2 Maple Creek	10,119
11 Moosejaw	9,945
16 Assiniboia	8,269
17 Battleford	7,533
19 Prince Albert	6,194
24 Humboldt	5,448
25 Saltcoats	5,388
27 Saskatchewan	4,937
31 Last Mountain	3,448
33 Weyburn	3,343
34 Swift Current	3,059
36 Regina	2,185
37 MacKenzie	2,297
38 N. Battleford	2,200
40 Kindersley	692

Total N° of Sheep
Total 492,511
100%

Man 14,751
3.0%

Sask 472,281
96.9%

Alta 291,523
59.1%

Rank/Constituencies Scale: 1" = 20,000 Sheep

2 Maple Creek	10,119
11 Moosejaw	9,945
16 Assiniboia	8,269
17 Battleford	7,533
19 Prince Albert	6,194
24 Humboldt	5,448
25 Saltcoats	5,388
27 Saskatchewan	4,937
31 Last Mountain	3,448
33 Weyburn	3,343
34 Swift Current	3,059
36 Regina	2,185
37 MacKenzie	2,297
38 N. Battleford	2,200
40 Kindersley	692

N° of Sheep per unit of Rural Population
Total Sheep per unit
Total 492,511

Man 14,751
3.0%

Sask 472,281
96.9%

Alta 291,523
59.1%

Rank/Constituencies Scale: 1" = 1 Sheep

2 Maple Creek	0.44
11 Moosejaw	0.35
16 Assiniboia	0.34
17 Battleford	0.24
19 Prince Albert	0.24
24 Humboldt	0.22
25 Saltcoats	0.22
27 Saskatchewan	0.20
31 Last Mountain	0.19
33 Weyburn	0.16
34 Swift Current	0.12
36 Regina	0.09
37 MacKenzie	0.07
38 N. Battleford	0.06
40 Kindersley	0.02

Total N° of Pigs
Total 1,337,087
100%

Man 205,804
15.39%

Sask 527,781
39.47%

Alta 603,554
45.14%

Rank/Constituencies Scale: 1" = 30,000 Pigs

5 Humboldt	52,276
6 Last Mountain	45,878
9 Maple Creek	43,475
10 Kindersley	42,790
12 Swift Current	39,969
13 Battleford	38,967
16 Weyburn	35,775
17 Prince Albert	34,470
19 Assiniboia	31,528
20 N. Battleford	31,509
22 Saltcoats	27,248
23 Qu'Appelle	25,403
26 Moosejaw	23,499
27 Saskatchewan	22,743
30 MacKenzie	22,073
39 Regina	10,553

N° of Pigs per unit of Rural Pop.
Total Pigs per unit
Total 1,337,087

Man 205,804
15.39%

Sask 527,781
39.47%

Alta 603,554
45.14%

Rank/Constituencies Scale: 1" = 30,000 Pigs

5 Humboldt	45.878
6 Last Mountain	43.475
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23 Qu'Appelle	23.499
26 Moosejaw	22.743
27 Saskatchewan	22.073
30 MacKenzie	10.553

N° of Pigs per unit of Rural Pop.
Total Pigs per unit
Total 1,337,087

Man 205,804
15.39%

Sask 527,781
39.47%

Alta 603,554
45.14%

Rank/Constituencies Scale: 1" = 30,000 Pigs

5 Humboldt	45.878
6 Last Mountain	43.475
9 Maple Creek	42.790
10 Kindersley	39.969
12 Swift Current	38.967
13 Battleford	35.775
16 Weyburn	34.470
17 Prince Albert	31.528
19 Assiniboia	31.509
20 N. Battleford	27.248
22 Saltcoats	25.403
23 Qu'Appelle	23.499
26 Moosejaw	22.743
27 Saskatchewan	22.073
30 MacKenzie	10.553

Total 219,105
100%

Man 47,122
21.51%

Sask 104,006
47.45%

Alta 67,977
31.02%

Rank/Constituencies Scale: 1" = 300

1 Maple Creek	9,750
2 Swift Current	7,122
3 Prince Albert	5,441
4 Humboldt	5,441
5 Last Mountain	5,441
6 N. Battleford	5,441
7 Weyburn	5,441
8 Assiniboia	5,441
9 Qu'Appelle	5,441
10 Saskatchewan	5,441
11 MacKenzie	5,441
12 Battleford	5,441
13 Swift Current	5,441
14 Moosejaw	5,441
15 Saltcoats	5,441
16 N. Battleford	5,441
17 Humboldt	5,441
18 Maple Creek	5,441
19 N. Battleford	5,441
20 MacKenzie	5,441
21 N. Battleford	5,441
22 MacKenzie	5,441
23 N. Battleford	5,441
24 MacKenzie	5,441
25 N. Battleford	5,441
26 MacKenzie	5,441
27 N. Battleford	5,441
28 MacKenzie	5,441
29 N. Battleford	5,441
30 MacKenzie	5,441

Number of Acres cultivated per Farm
3 Provinces
Man 152.6 Ac
Sask 152.6 Ac
Alta 152.6 Ac

Rank/Constituencies Scale: 1" = 100

1 Assiniboia	209.34
2 Regina	209.34
3 Weyburn	209.34
4 Last Mountain	209.34
5 Qu'Appelle	209.34
6 Prince Albert	209.34
7 Swift Current	209.34
8 Saskatchewan	209.34
9 Saltcoats	209.34
10 MacKenzie	209.34
11 N. Battleford	209.34
12 Humboldt	209.34
13 Maple Creek	209.34
14 N. Battleford	209.34
15 MacKenzie	209.34
16 N. Battleford	209.34
17 MacKenzie	209.34
18 N. Battleford	209.34
19 MacKenzie	209.34
20 N. Battleford	209.34
21 MacKenzie	209.34
22 N. Battleford	209.34
23 MacKenzie	209.34
24 N. Battleford	209.34
25 MacKenzie	209.34
26 N. Battleford	209.34
27 MacKenzie	209.34
28 N. Battleford	209.34
29 MacKenzie	209.34
30 N. Battleford	209.34
31 MacKenzie	209.34
32 N. Battleford	209.34
33 MacKenzie	209.34
34 N. Battleford	209.34
35 MacKenzie	209.34
36 N. Battleford	209.34
37 MacKenzie	209.34
38 N. Battleford	209.34
39 MacKenzie	209.34
40 N. Battleford	209.34

Number of Acres cultivated per Farm
3 Provinces
Man 152.6 Ac
Sask 152.6 Ac
Alta 152.6 Ac

Rank/Constituencies Scale: 1" = 100

1 Assiniboia	209.34
2 Regina	209.34
3 Weyburn	209.34
4 Last Mountain	209.34
5 Qu'Appelle	209.34
6 Prince Albert	209.34
7 Swift Current	209.34
8 Saskatchewan	209.34
9 Saltcoats	209.34
10 MacKenzie	209.34
11 N. Battleford	209.34
12 Humboldt	209.34
13 Maple Creek	209.34
14 N. Battleford	209.34
15 MacKenzie	209.34
16 N. Battleford	209.34
17 MacKenzie	209.34
18 N. Battleford	209.34
19 MacKenzie	209.34
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26 N. Battleford	209.34
27 MacKenzie	209.34
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31 MacKenzie	209.34
32 N. Battleford	209.34
33 MacKenzie	209.34
34 N. Battleford	209.34
35 MacKenzie	209.34
36 N. Battleford	209.34
37 MacKenzie	209.34
38 N. Battleford	209.34
39 MacKenzie	209.34
40 N. Battleford	209.34

Number of Acres cultivated per Farm
3 Provinces
Man 152.6 Ac
Sask 152.6 Ac
Alta 152.6 Ac

Rank/Constituencies Scale: 1" = 10

1 Assiniboia	13.19
2 Regina	13.19
3 Weyburn	13.19
4 Last Mountain	13.19
5 Qu'Appelle	13.19
6 Prince Albert	13.19
7 Swift Current	13.19
8 Saskatchewan	13.19
9 Saltcoats	13.19
10 MacKenzie	13.19
11 N. Battleford	13.19
12 Humboldt	13.19
13 Maple Creek	13.19
14 N. Battleford	13.19
15 MacKenzie	13.19
16 N. Battleford	13.19
17 MacKenzie	13.19
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19 MacKenzie	13.19
20 N. Battleford	13.19
21 MacKenzie	13.19
22 N. Battleford	13.19
23 MacKenzie	13.19
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25 MacKenzie	13.19
26 N. Battleford	13.19
27 MacKenzie	13.19
28 N. Battleford	13.19
29 MacKenzie	13.19
30 N. Battleford	13.19
31 MacKenzie	13.19
32 N. Battleford	13.19
33 MacKenzie	13.19
34 N. Battleford	13.19
35 MacKenzie	13.19
36 N. Battleford	13.19
37 MacKenzie	13.19
38 N. Battleford	13.19
39 MacKenzie	13.19
40 N. Battleford	13.19

Number of Acres cultivated per Farm
3 Provinces
Man 152.6 Ac
Sask 152.6 Ac
Alta 152.6 Ac

Rank/Constituencies Scale: 1" = 10

1 Assiniboia	13.19
2 Regina	13.19
3 Weyburn	13.19
4 Last Mountain	13.19
5 Qu'Appelle	13.19
6 Prince Albert	13.19
7 Swift Current	13.19
8 Saskatchewan	13.19
9 Saltcoats	13.19
10 MacKenzie	13.19
11 N. Battleford	13.19
12 Humboldt	13.19
13 Maple Creek	13.19
14 N. Battleford	13.19
15 MacKenzie	13.19
16 N. Battleford	13.19
17 MacKenzie	13.19
18 N. Battleford	13.19
19 MacKenzie	13.19
20 N. Battleford	13.19
21 MacKenzie	13.19
22 N. Battleford	13.19
23 MacKenzie	13.19
24 N. Battleford	13.19
25 MacKenzie	13.19
26 N. Battleford	13.19
27 MacKenzie	13.19
28 N. Battleford	13.19
29 MacKenzie	13.19
30 N. Battleford	13.19
31 MacKenzie	13.19
32 N. Battleford	13.19
33 MacKenzie	13.19
34 N. Battleford	13.19
35 MacKenzie	13.19
36 N. Battleford	13.19
37 MacKenzie	13.19
38 N. Battleford	13.19
39 MacKenzie	13.19
40 N. Battleford	13.19

Number of Acres cultivated per Farm
3 Provinces
Man 152.6 Ac
Sask 152.6 Ac
Alta 152.6 Ac

Rank/Constituencies Scale: 1" = 10

1 Assiniboia	13.19
2 Regina	13.19
3 Weyburn	13.19
4 Last Mountain	13.19
5 Qu'Appelle	13.19
6 Prince Albert	13.19
7 Swift Current	13.19
8 Saskatchewan	13.19
9 Saltcoats	13.19
10 MacKenzie	13.19
11 N. Battleford	13.19
12 Humboldt	13.19
13 Maple Creek	13.19
14 N. Battleford	13.19
15 MacKenzie	13.19
16 N. Battleford	13.19
17 MacKenzie	13.19
18 N. Battleford	13.19
19 MacKenzie	13.19
20 N. Battleford	13.19
21 MacKenzie	13.19
22 N. Battleford	13.19
23 MacKenzie	13.19
24 N. Battleford	13.19
25 MacKenzie	13.19
26 N. Battleford	13.19
27 MacKenzie	13.19
28 N. Battleford	13.19
29 MacKenzie	13.19
30 N. Battleford	13.19
31 MacKenzie	13.19
32 N. Battleford	13.19
33 MacKenzie	13.19
34 N. Battleford	13.19
35 MacKenzie	13.19
36 N. Battleford	13.19
37 MacKenzie	13.19
38 N. Battleford	13.19
39 MacKenzie	13.19
40 N. Battleford	13.19



WPA 1974-162-2100-002-031

The attached; map of Saskatchewan and several graphs thereon.

On the map each township in which there is any Rural Population, the same is represented by dots. By adding one to the number of dots and dividing the sum by two, gives the Rural Population per square mile in said township up to 13. Above 13 see legend. The object sought to be obtained is that the map will represent clearly and readily the differences in density of population.

The three prairie Provinces contain 43 Federal Constituencies and in each except the three for Winnipeg, there is a Rural Population. A list of these Constituencies arranged alphabetically showing in which Province it is located may be found at the upper left hand corner. In reference to production there are only 40 constituencies shown, the three for Winnipeg being for obvious reasons omitted.

The Rural Population differs from the number given in the Census as 1% of the Cities, 8% of the Towns and 20% of the Villages have been assumed as engaged in rural operations and therefore have been added to the number given by the Census in the Constituencies where the same are situated.

As to Total Output, see note to special graph No. 3.

SPECIAL GRAPH

There are also 13 special graphs, numbered 1 to 13.

No. 1.- 2 Sections. 1. Shows Total Population in order of numbers, and thereon by solid bar the Rural Population. 1A. Shows Rural Population in sequence of numbers.

No. 2.- 5 Sections. 2. Showing the area in acres of the lands now available for settlement. 2A. Areas of cultivated land in sequence. 2B. Percentage of constituency that cultivated land is of that available for settlement. 2C. Number of acres available for settlement per unit of Rural Population. 2D. Acres of cultivated land per unit of Rural Population.

No. 3.- 2 Sections. 3. Total Annual Output. 3A. Annual Output per unit of Rural Population. (See note representing Annual Output.)

No. 4.- 3 Sections. 4. Total bushels of wheat. 4A. Bushels of wheat per acre. 4B. Bushels of wheat per unit of Rural Population.

No. 5.- 3 Sections. 5. Total bushels of oats. 5A. Bushels of oats per acre. 5B. Bushels of oats per unit of Rural Population.

No. 6.- 3 Sections. 6. Total bushels of barley. 6A. Bushels of barley per acre. 6B. Bushels of barley per unit of Rural Population.

No. 7.- 3 Sections. 7. Total bushels of flax. 7A. Bushels of flax per acre. 7B. Bushels of flax per unit of Rural Population.

No. 8.- 2 Sections. 8. Total number of Horses. 8A. Number of horses per unit of Rural Population.

No. 9.- 2 Sections. 9. Total number of cattle. 9A. Number of cattle per unit of Rural Population.

No. 10.- 2 Sections. 10. Total number of sheep. 10A. Number of sheep per unit of Rural Population.

No. 11.- 2 Sections. 11. Total number of pigs. 11A. Number of pigs per unit of Rural Population.

No. 12.- 3 Sections. 12. Total railway mileage in sequence. 12A. Rural Population per mile of railway. 12B. Annual Output per mile of railway.

No. 13.- 8 Sections. 13. Number of farms. 13A. Number of acres per farm. 13B. Number of horses per farm. 13C. Number of cattle per farm. 13D. Number of sheep per farm. 13E. Number of pigs per farm. 13F. Number of Rural Population per farm. 13G. Annual Output per farm.

Calgary, Alberta, 25th January, 1918.

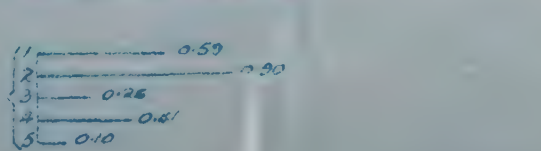
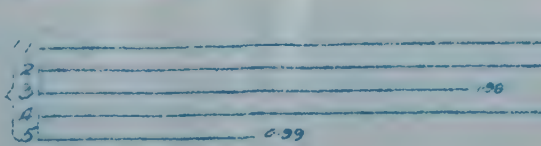
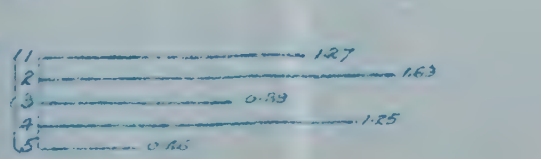
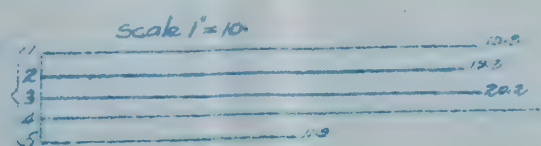
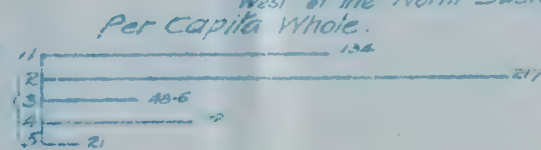
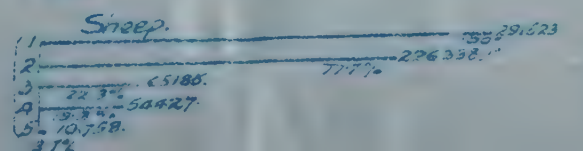
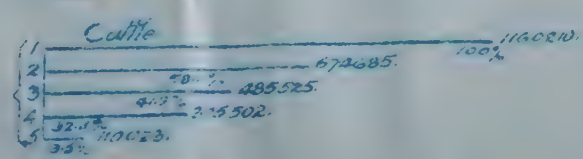
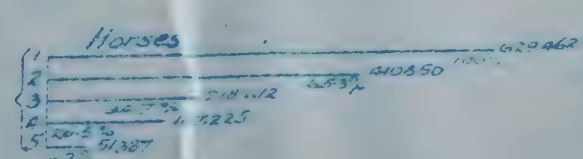
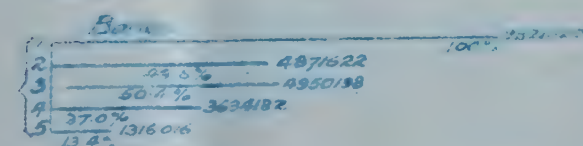
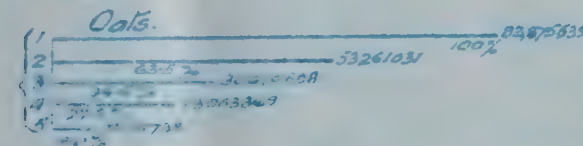
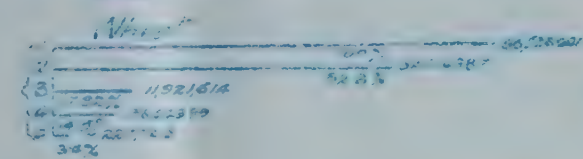
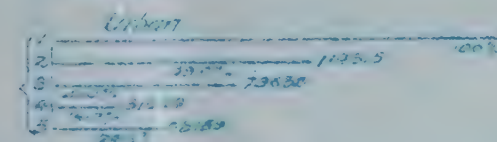
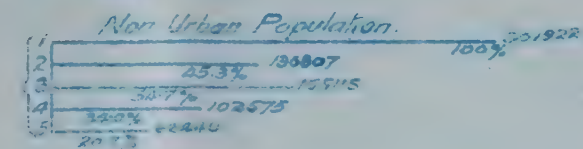
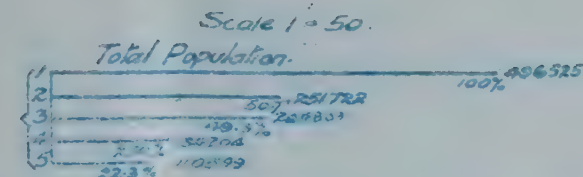
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GRAPH SHEWING CALGARY AND EDMONTON AS C

CALGARY BOARD OF TRADE
Calgary May 1918

Compiled by W. PEARSON



LEGEND

Taking the C.P.R. Station at Calgary and the Union Station of the C.N.R. and G.T.P. at Edmonton as the respective railway centres of the two Cities, a parallel of latitude drawn midway between those centres is slightly less than one mile south of the northerly limit of Township 38. In this the Province is represented as follows.

No. 1. the whole Province.

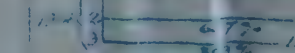
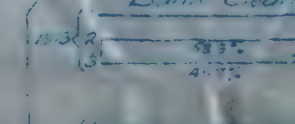
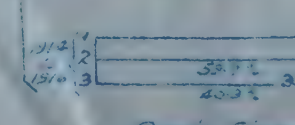
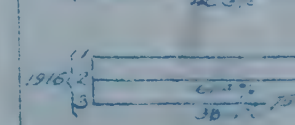
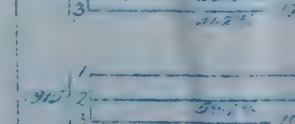
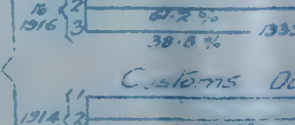
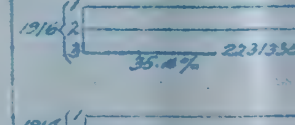
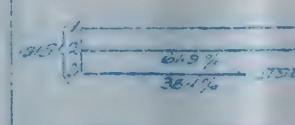
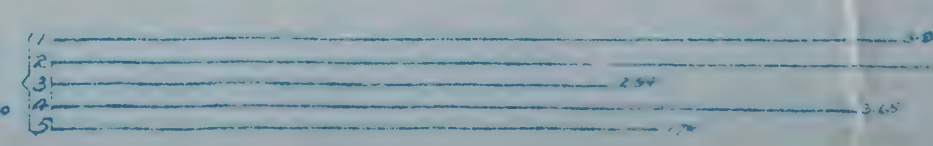
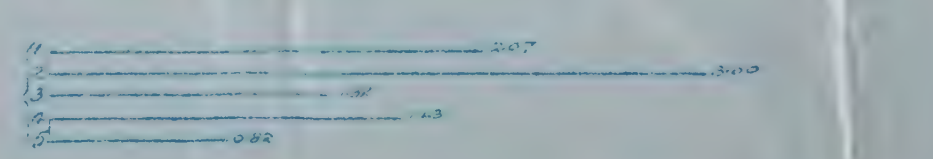
No. 2. that portion of the Province lying south of Township 39.

No. 3. that portion of the Province lying north of Township 38.

No. 4. is No. 3. less those portions of the Federal Constituencies of Battle River, Edmonton East, Edmonton West and Strathcona lying north and west of the North Saskatchewan River.

No. 5. that portion of the Federal Constituencies of Battle River, Edmonton East, Edmonton West and Strathcona lying north and west of the North Saskatchewan River.

Per Capita. Non Urban.



GRAPH SHEWING CALGARY AND EDNONTON AS CENTRES

CALGARY BOARD OF TRADE

Calgary May 1918.

Compiled by W. PEAR. P

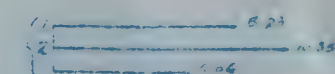
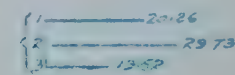
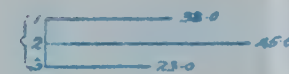
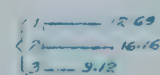
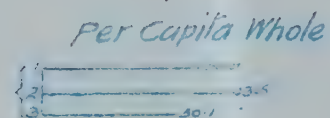
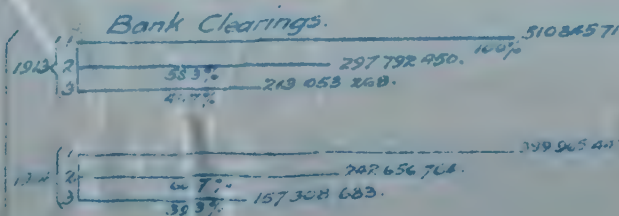
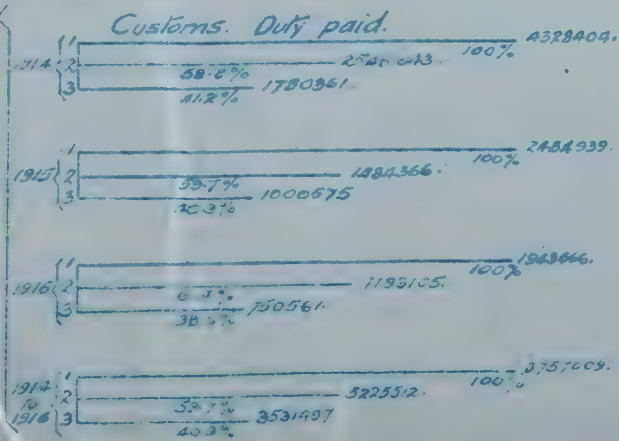
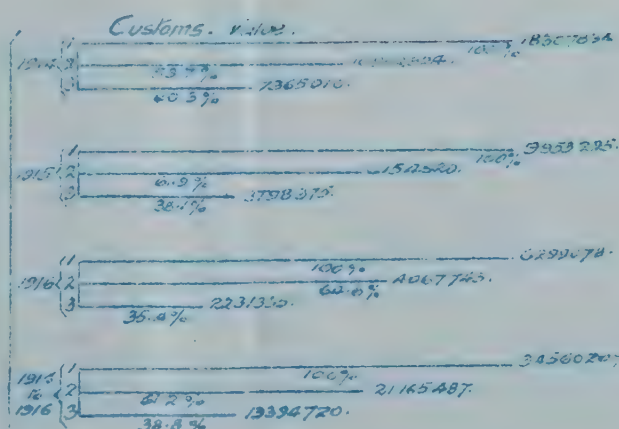
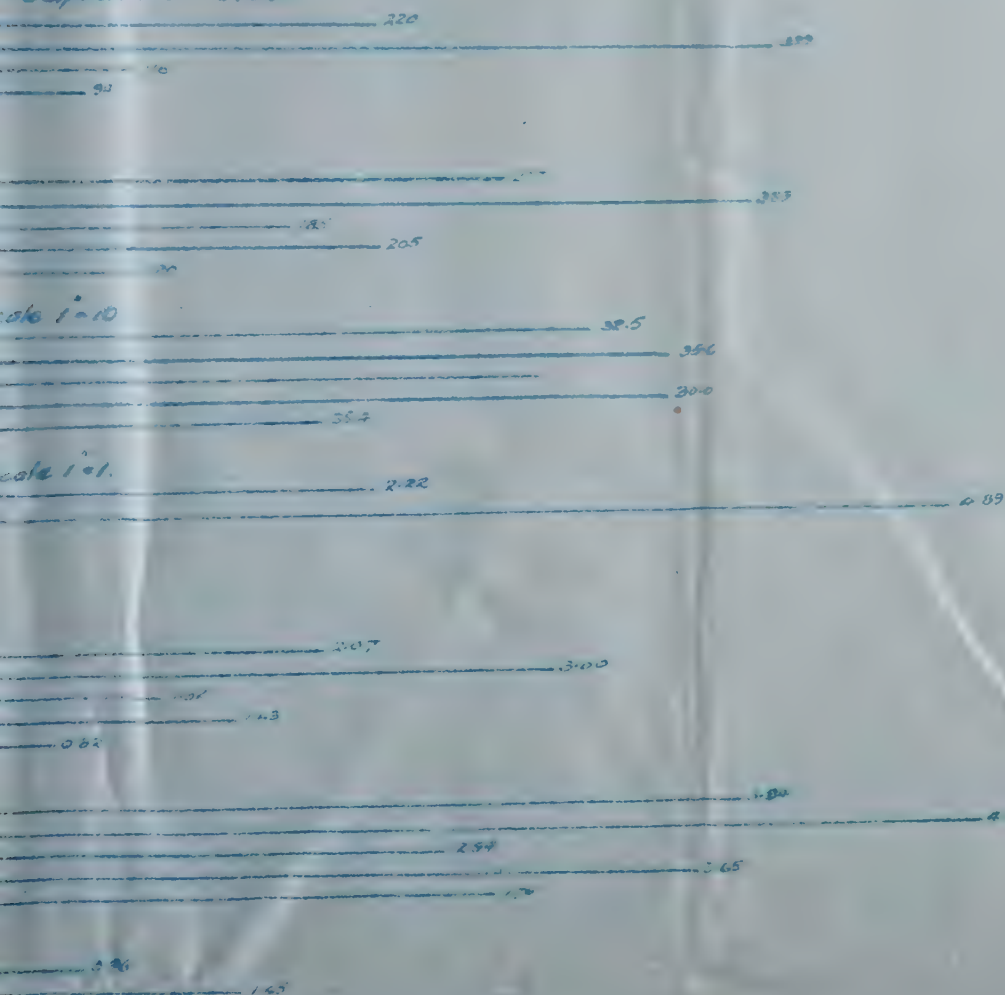
the Union Station of the C.N.R.
The railway centres of the two Cities, a parallel of
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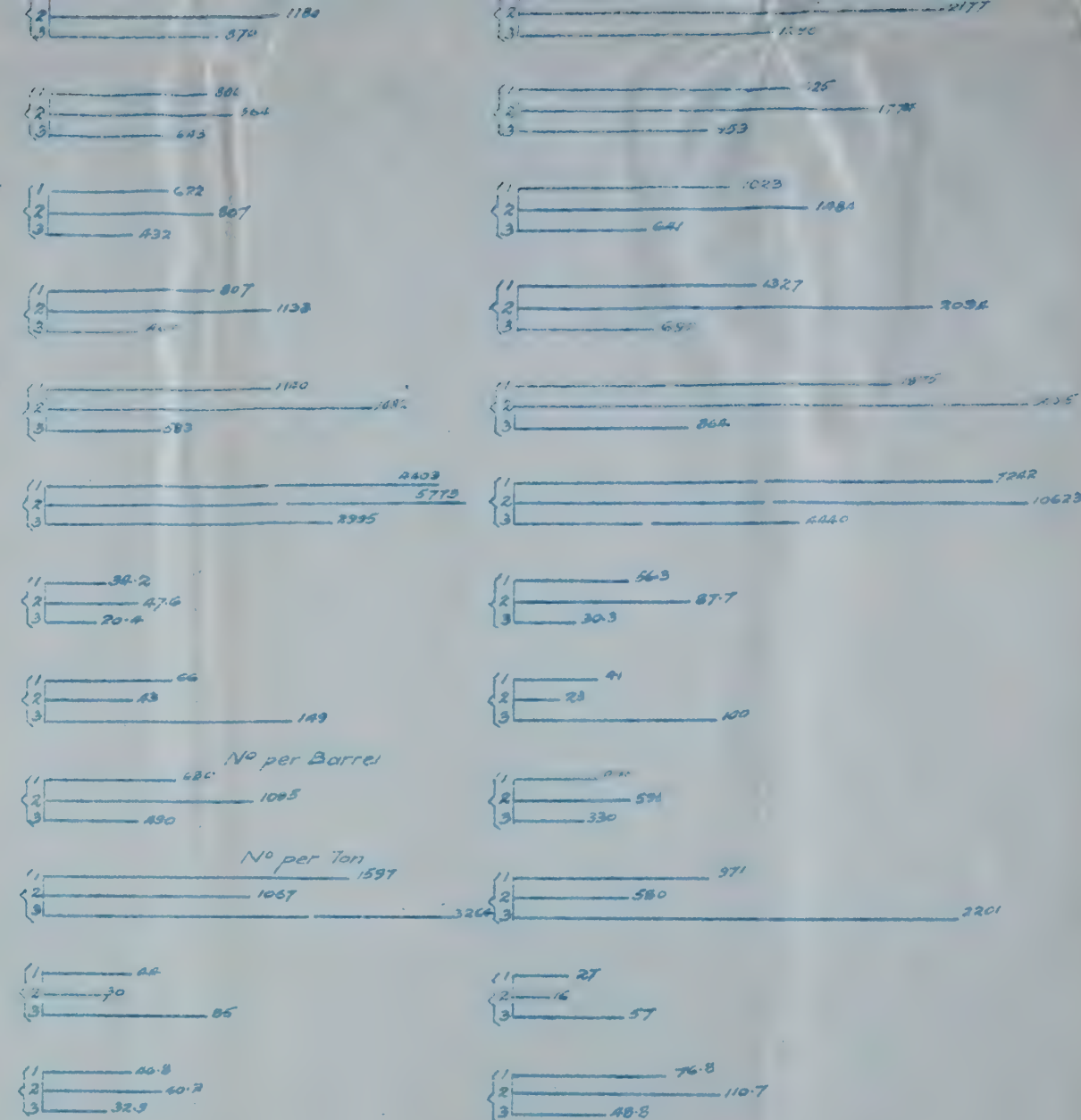
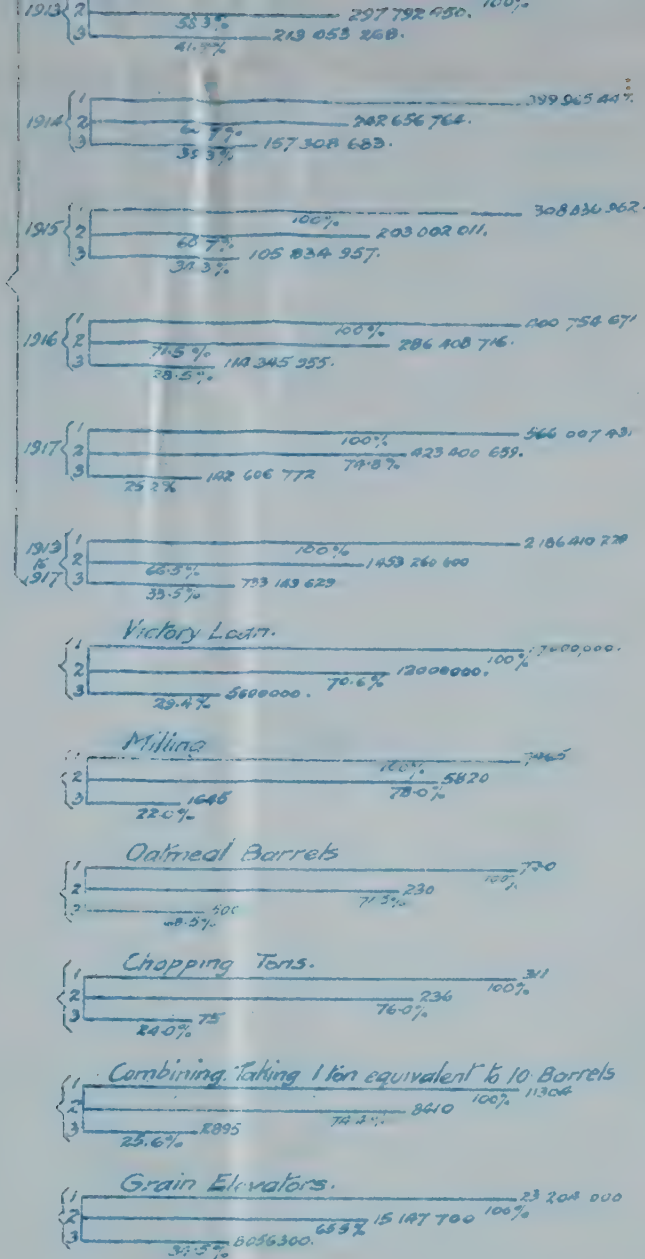
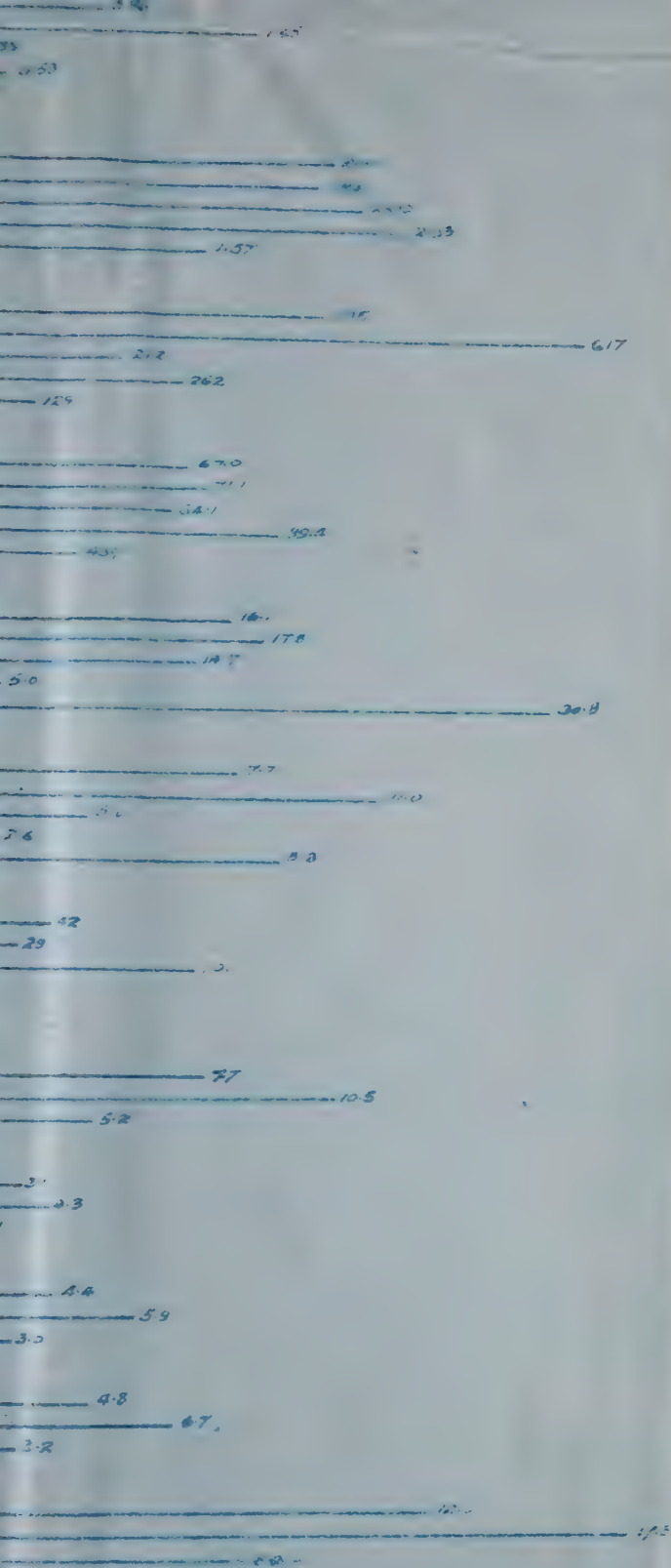
of Township 39.

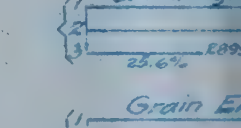
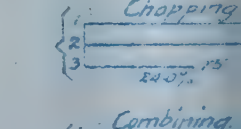
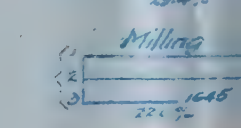
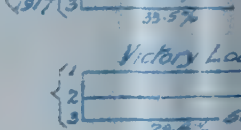
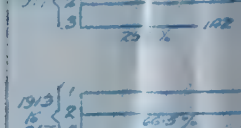
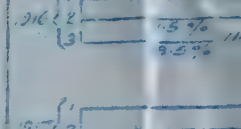
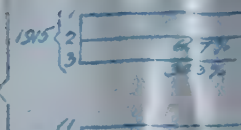
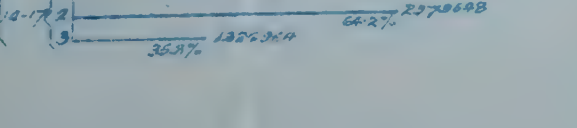
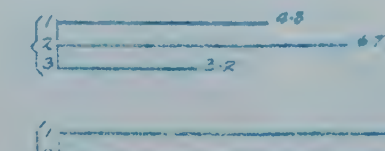
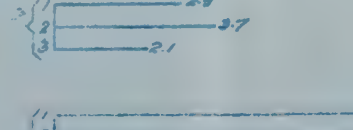
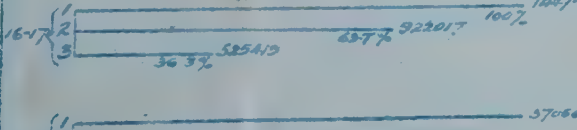
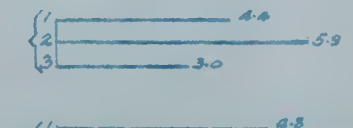
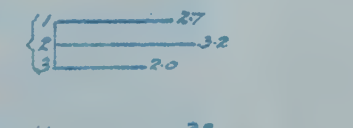
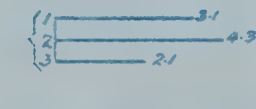
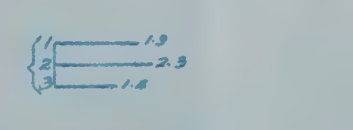
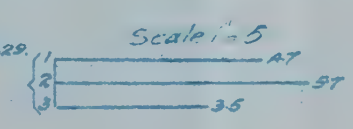
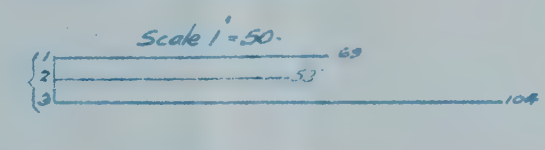
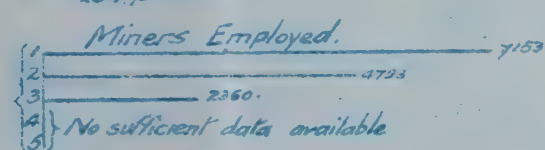
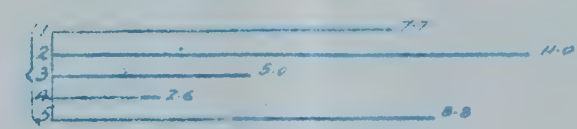
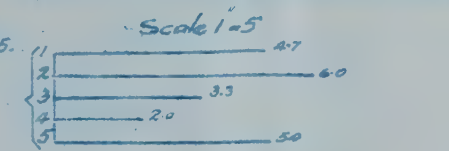
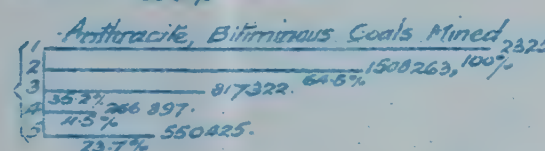
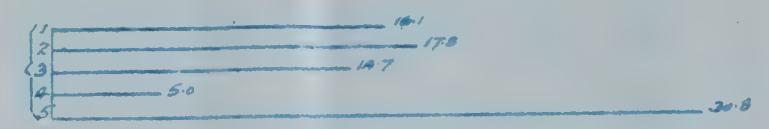
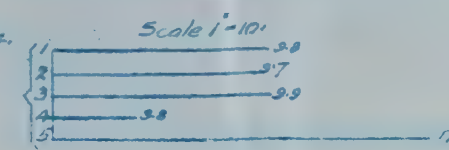
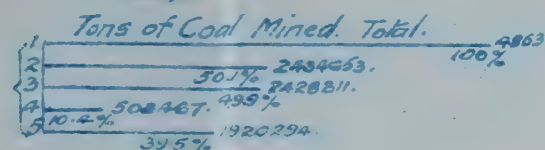
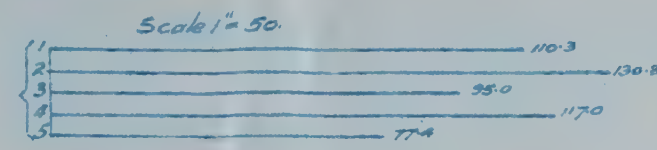
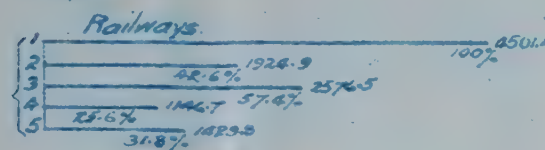
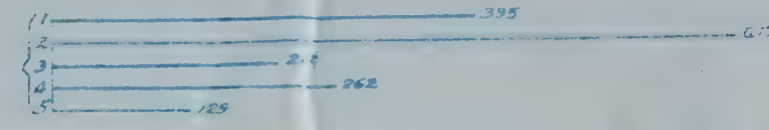
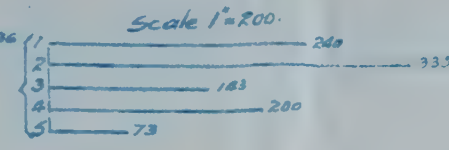
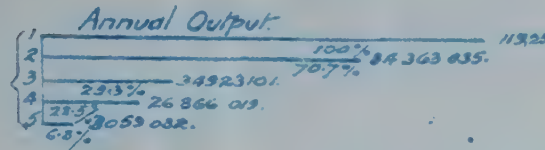
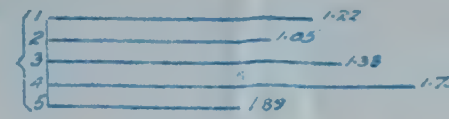
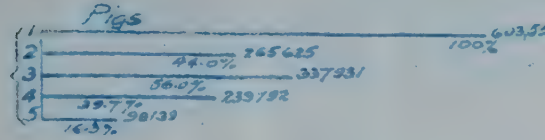
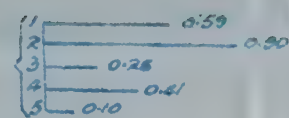
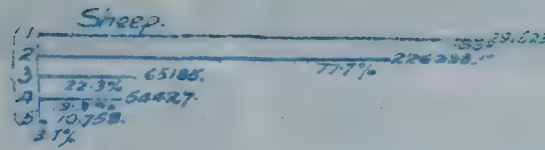
38.
encies of Battle River, Edmonton East, Edmonton West and Strathcona lying
an River.

attle River, Edmonton East, Edmonton West and Straincome lying north and

Capita. Non Urban.











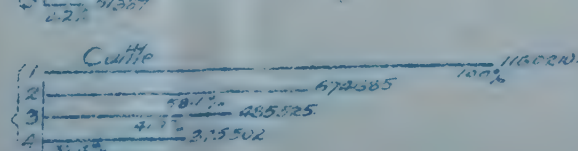
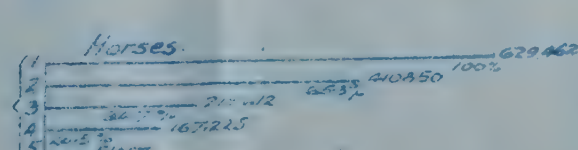
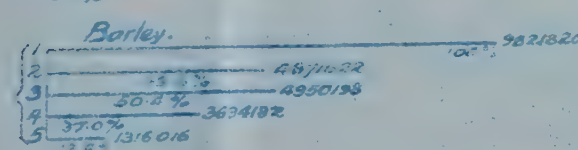
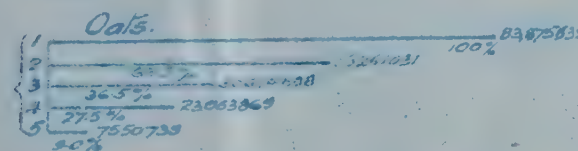
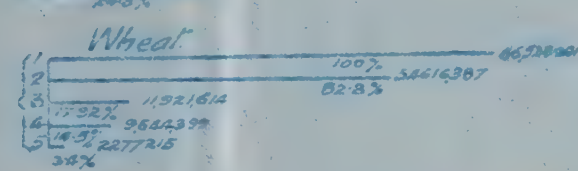
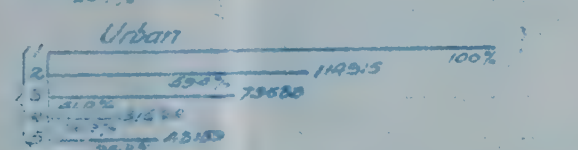
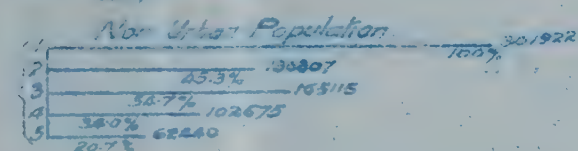
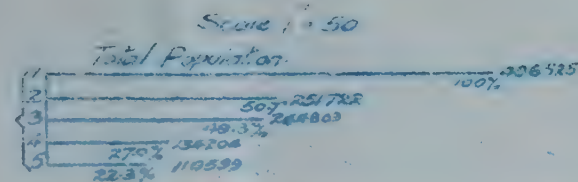
LAA 1974-169-2100-002-032

GRAPH SHEWING CALGARY AND EDMONTON AS

CALGARY BOARD OF TRADE

Calgary May 1918

Compiled by W. PEAR



LEGEND

Taking the C.P.R. Station at Calgary and the Union Station of the C.N.R. and G.T.P. at Edmonton as the respective railway centres of the two Cities, a parallel of latitude drawn midway between these centres is roughly less than one mile south of the northern limit of Township 39. In this the Province is represented as follows.

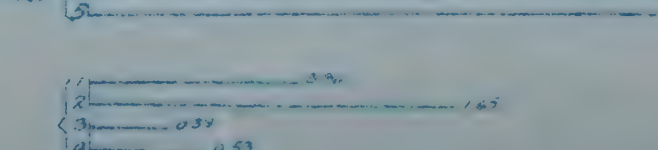
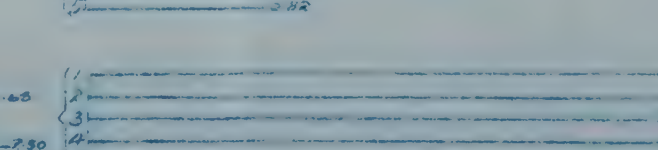
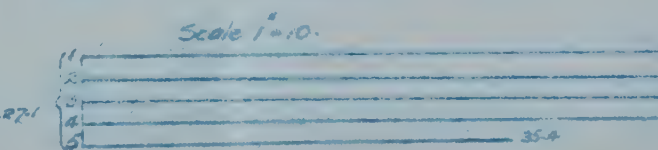
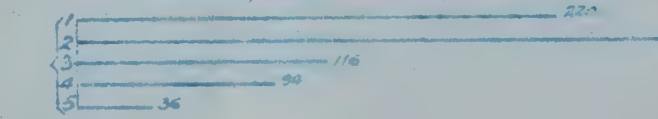
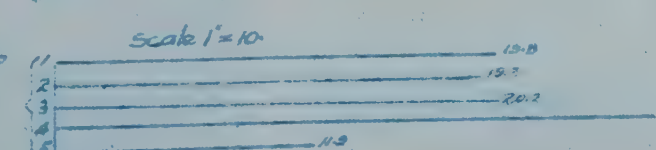
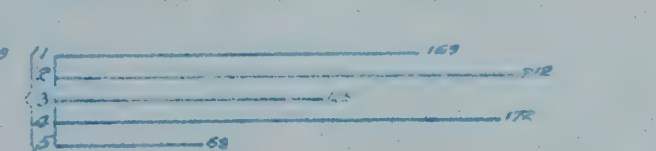
No. 1. the whole Province.

No. 2. that portion of the Province lying south of Township 39.

No. 3. north 39.

No. 4. is No. 3. less those portions of the Federal Constituencies of Battle River, Edmonton East, Edmonton West and Strathcona lying north and west of the North Saskatchewan River.

No. 5. that portion of the Federal Constituencies of Battle River, Edmonton East, Edmonton West and Strathcona lying north and west of the North Saskatchewan River.



GRAPH SHEWING CALGARY AND EDNONTON AS CENTRES

CALGARY BOARD OF TRADE

Calgary May 1918.

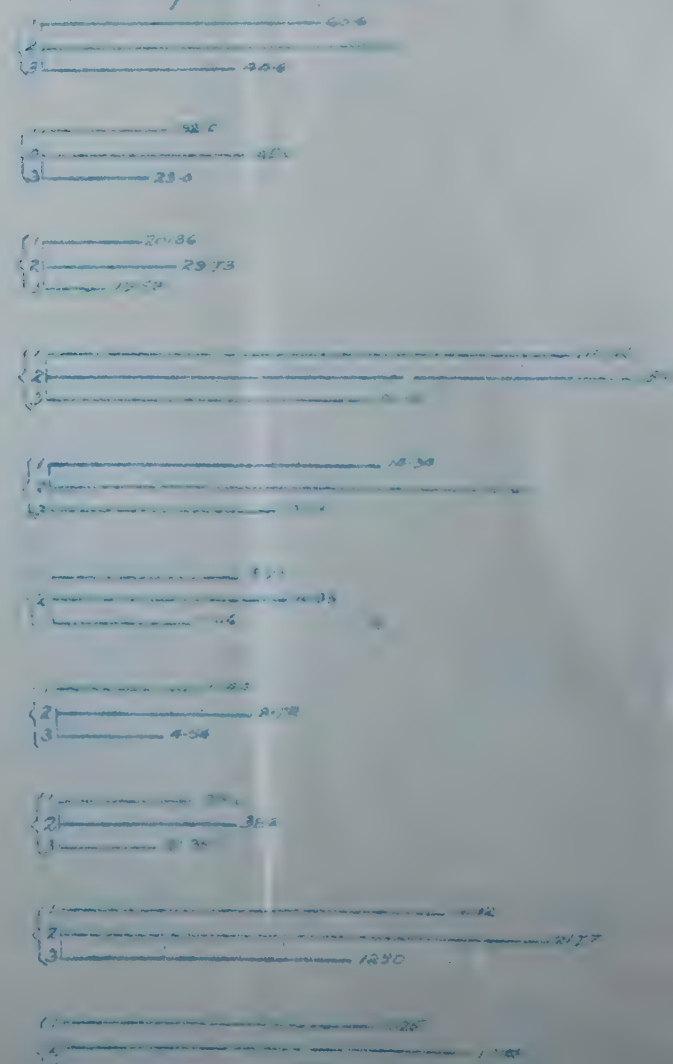
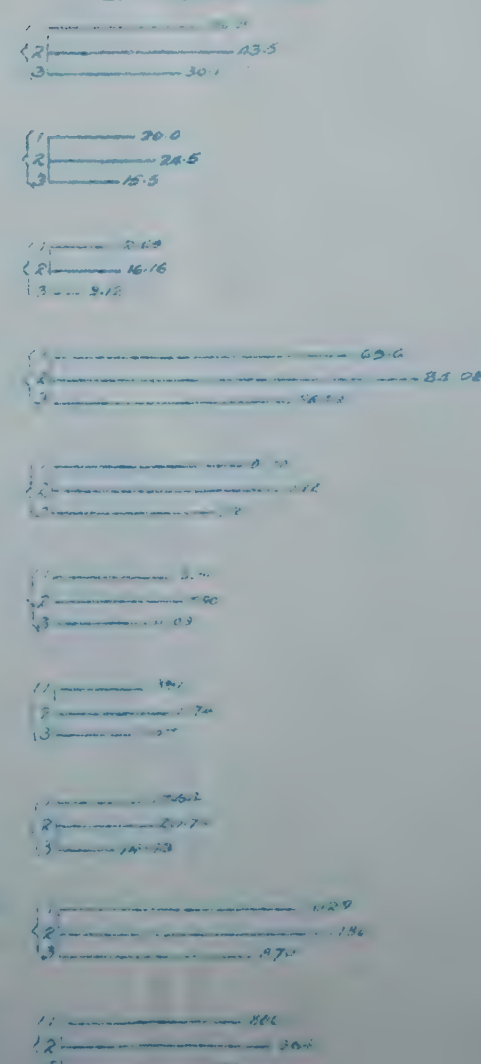
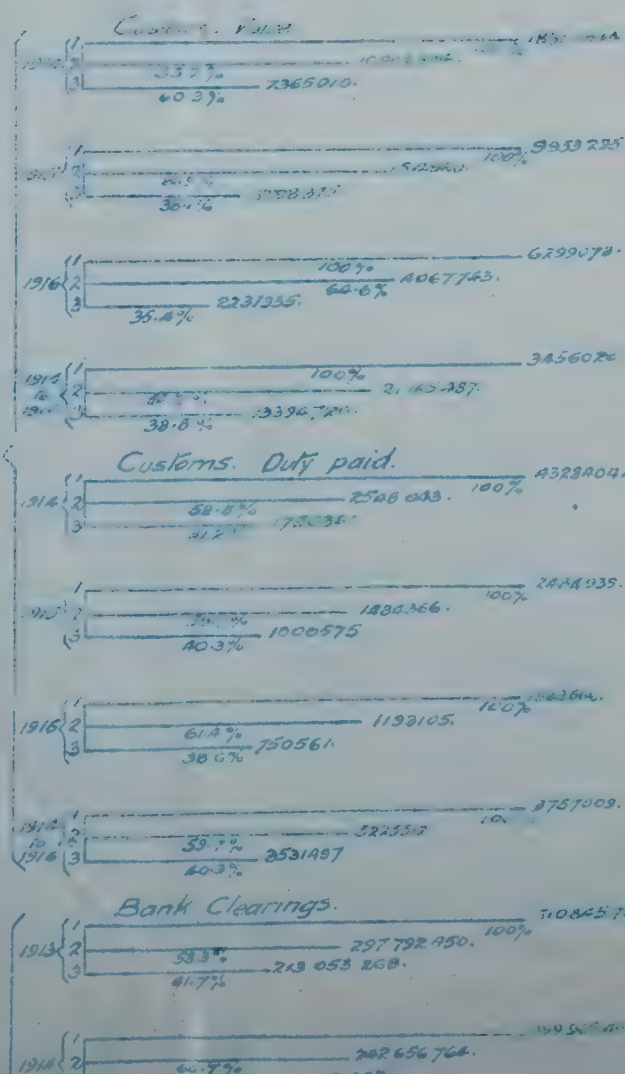
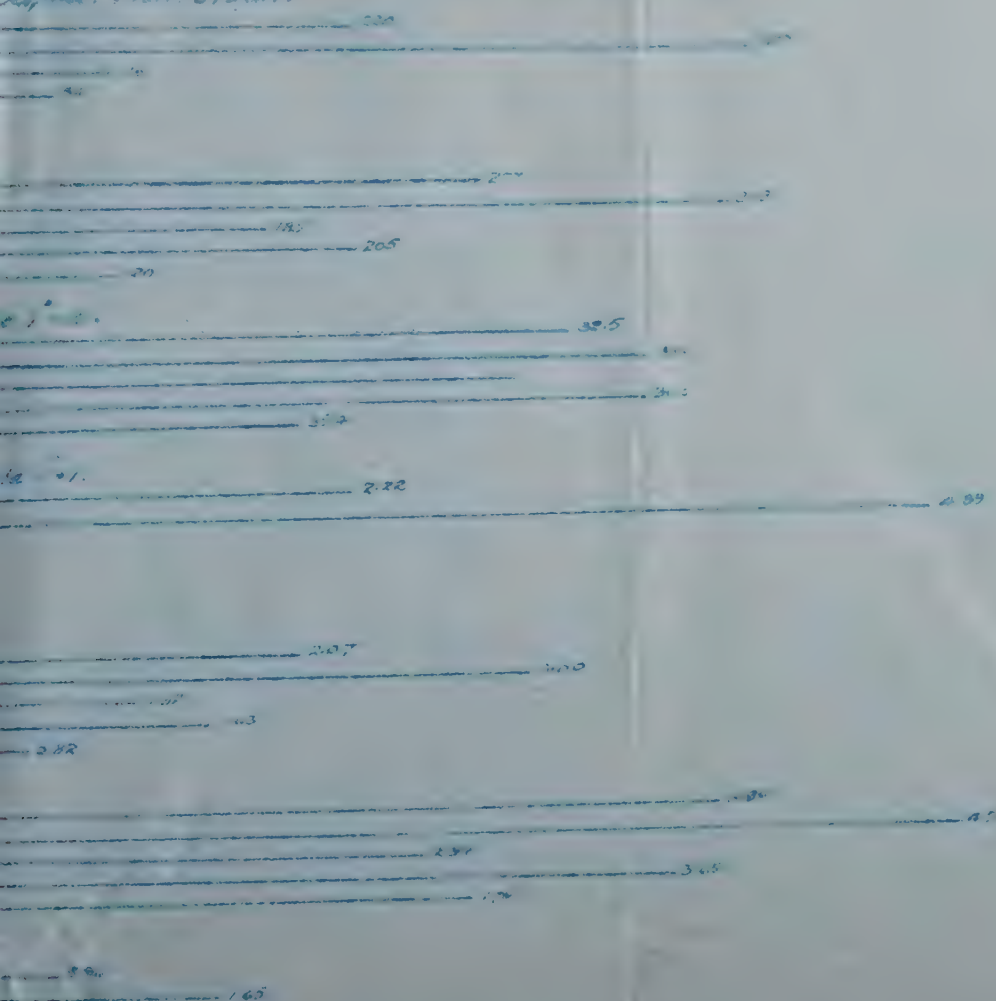
Compiled by W. PEARCE

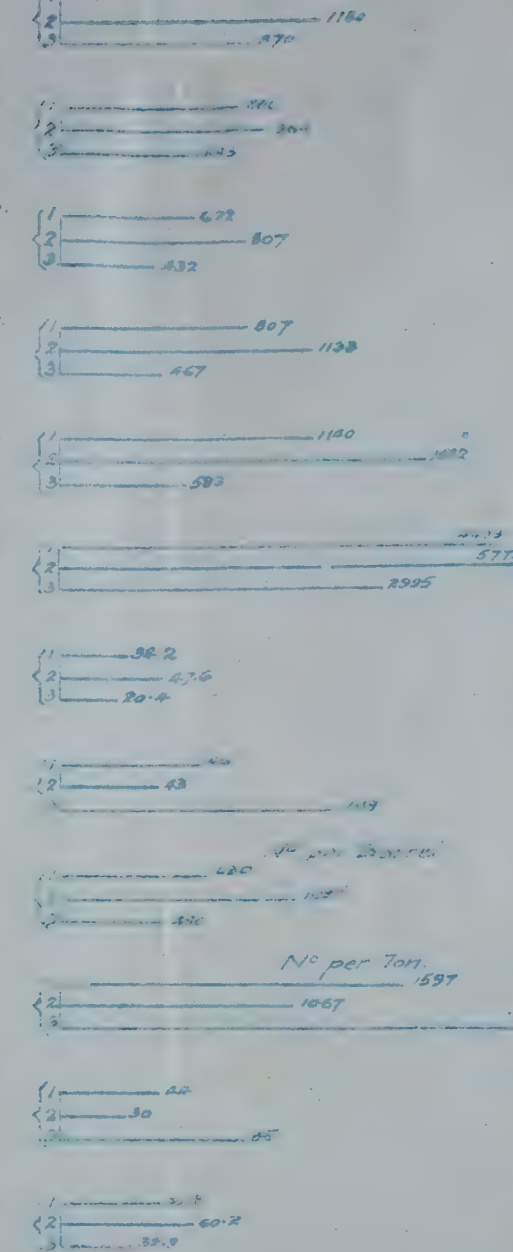
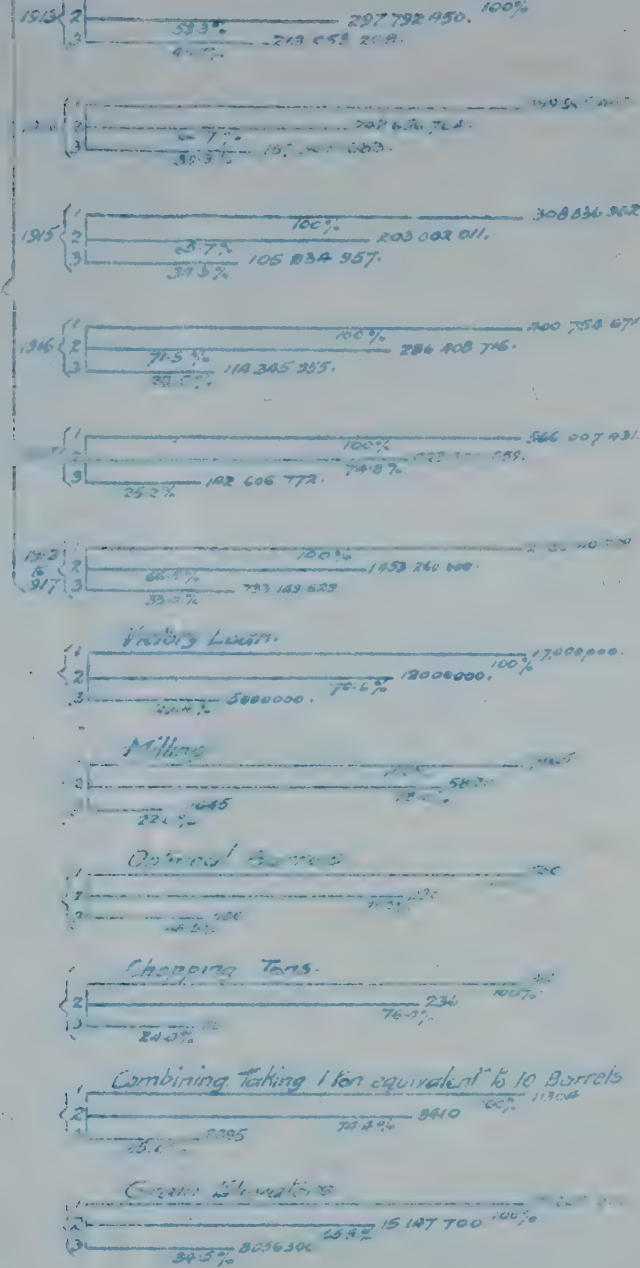
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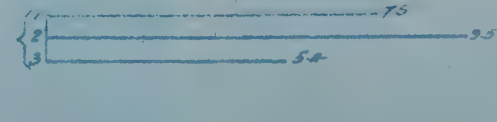
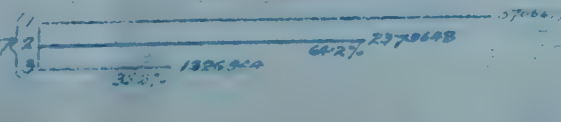
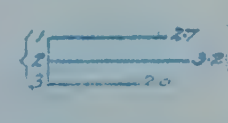
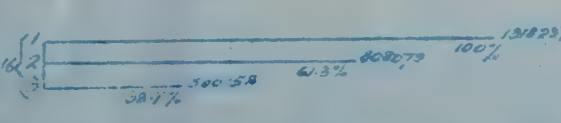
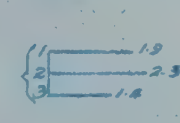
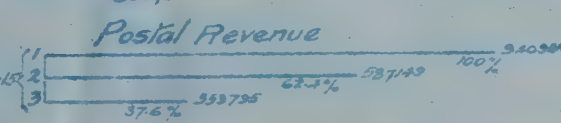
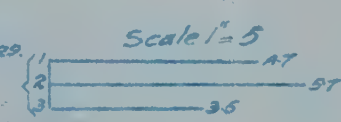
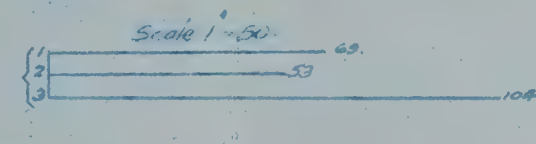
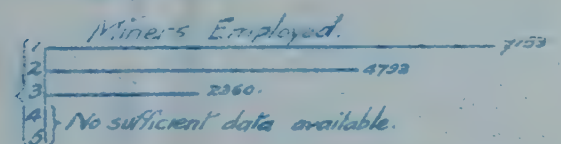
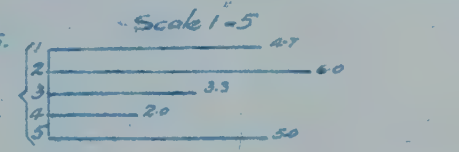
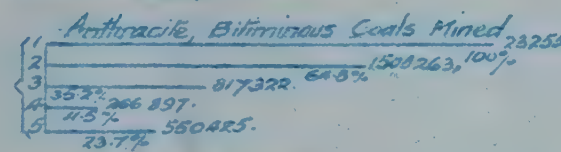
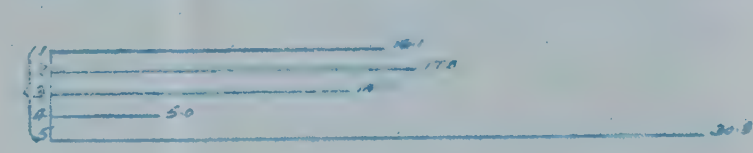
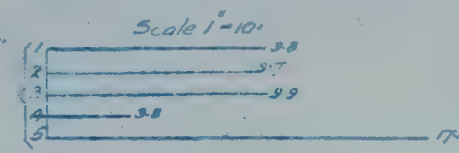
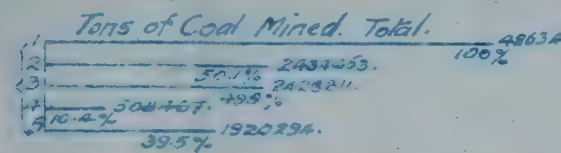
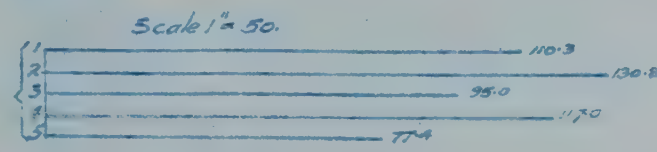
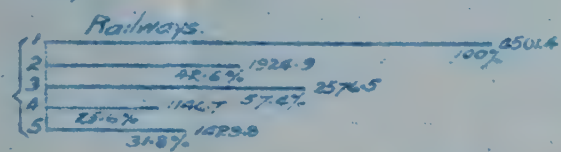
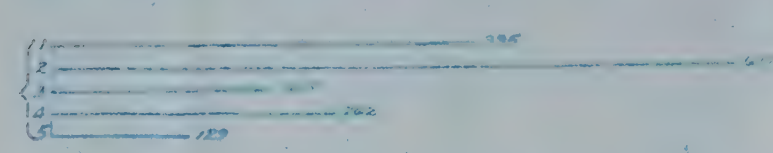
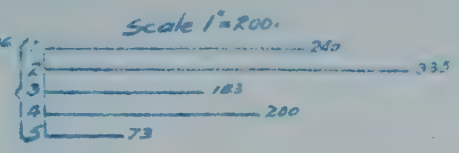
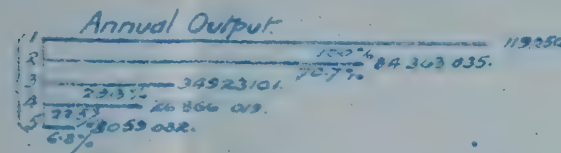
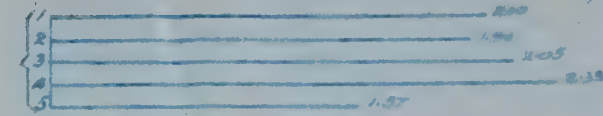
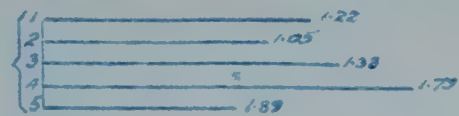
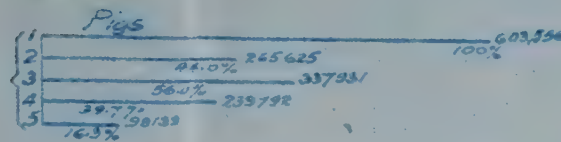
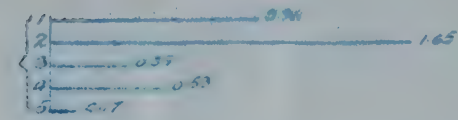
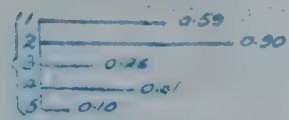
4. *Chrysomelidae* 34.

... of Battle River, Edmonton East, ...

the River, Edmonton East, Edmonton West and Strathcona lying north and
Capitol. Non Urban.











WAA 1974-169-2100-002-033

~~8472~~

1
Culpeper
to
Clinton

1895.

1895



BRITISH COLUMBIA





BRITISH COLUMBIA

ALBERTA
SOUTHERN SHEET

Scale: 1:100,000 (1 inch = 16 miles)

CANADIAN PACIFIC RAILWAY COMPANY
COLONIZATION AND DEVELOPMENT BRANCH

J. S. DENNIS
CHIEF COMMISSIONER

COMPILED
Calgary

Showing as units each Municipality, Local Improvement Districts and area which will eventually become Local Improvement Districts and afterwards Municipalities.
Drawn to scale: The Cultivated area in acres, also Stock area in acres, Horses, Cattle, Sheep and Pigs with the area apportioned thereof.

LEGEND

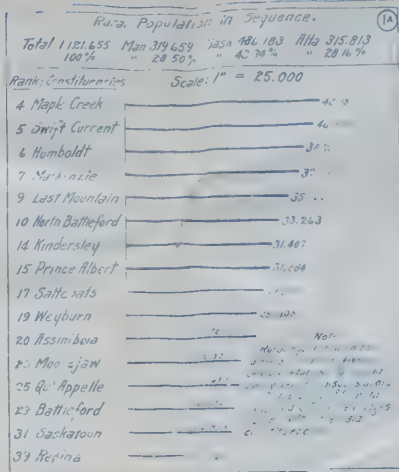
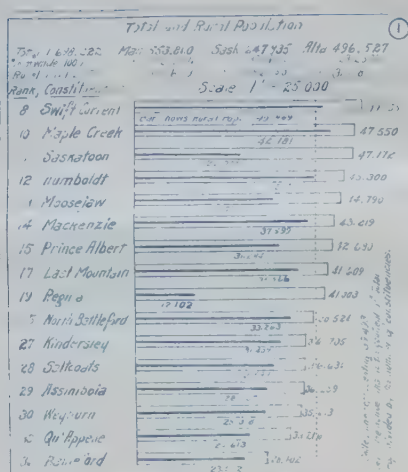


Scale: 1:100,000 (1 inch = 16 miles)
Indicates recent changes in boundaries
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1312

1891 / Albert
Bathurst
Sheet

1891
ALBERTA
SOUTHERN
MOUNTAINS

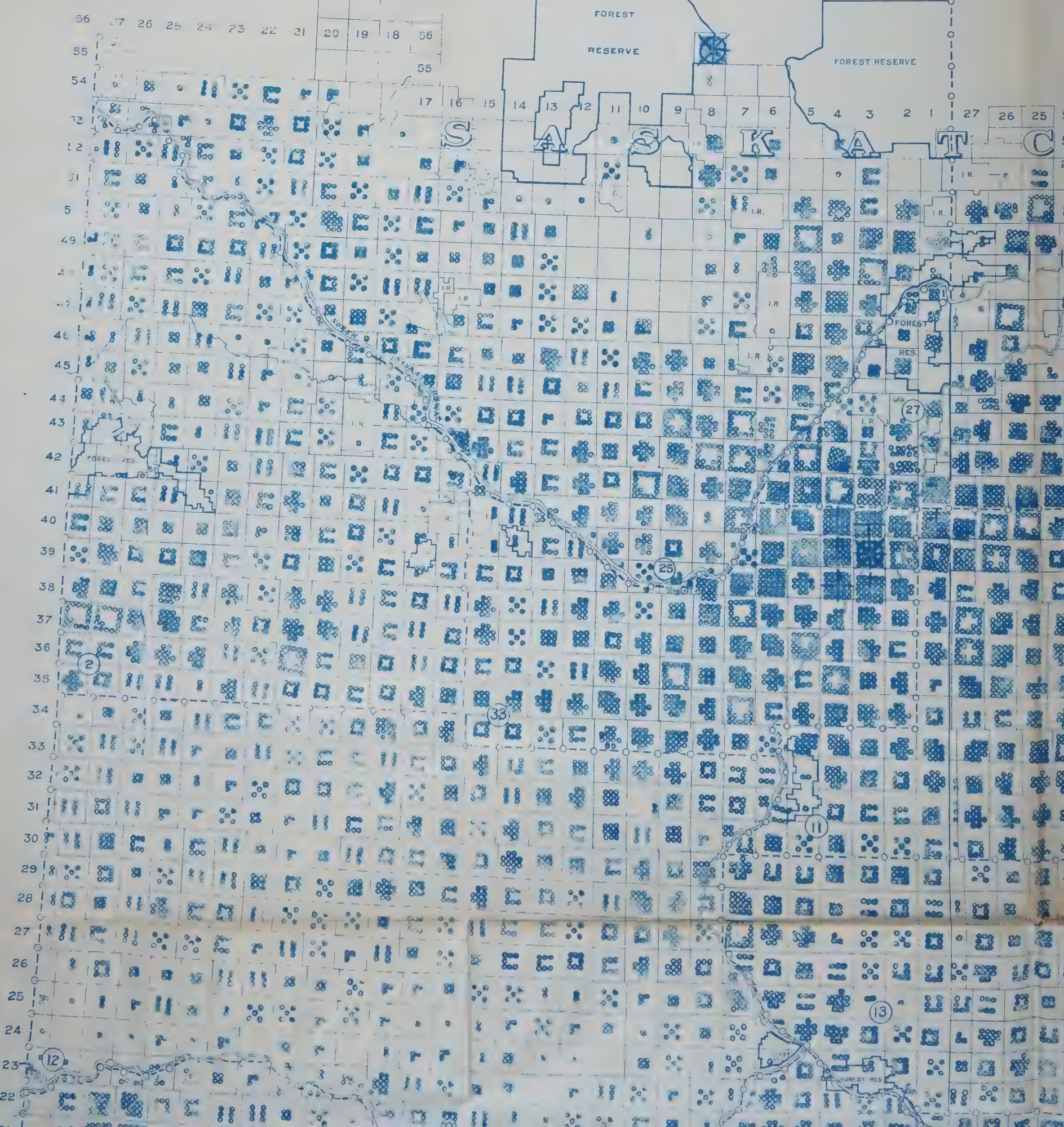
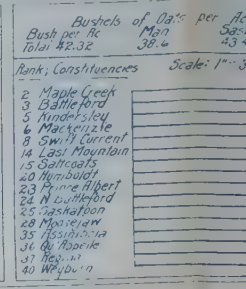
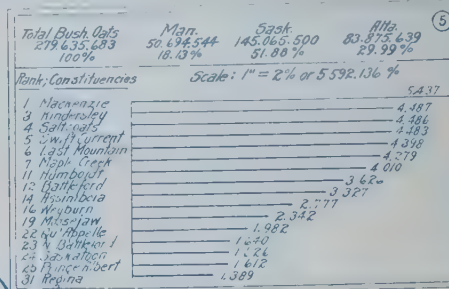
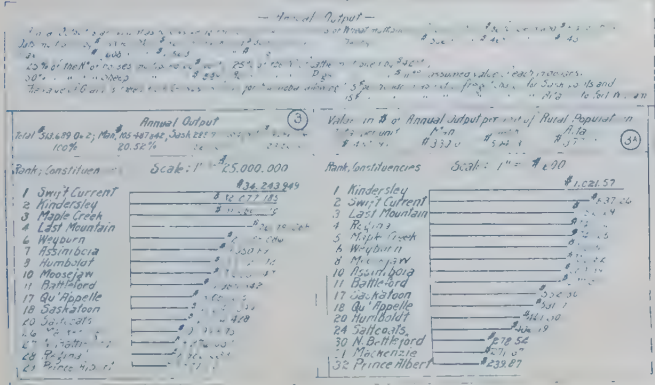
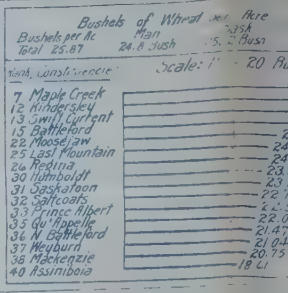
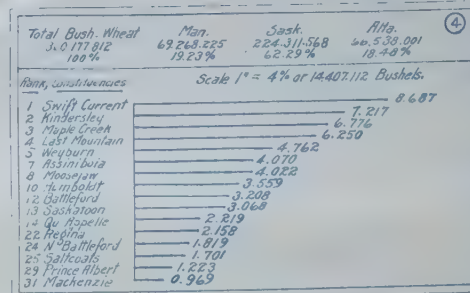


J. S. DENNIS
CHIEF COMMISSIONER

№ 17

Census June 19

Graph - Rural Population by Townships;
Also showing by Federal Constituencies Annual Output, Grain,
There are 43 Federal Constituencies in the 3 Prairie Provinces. The rank locates



RAILWAY COMPANY

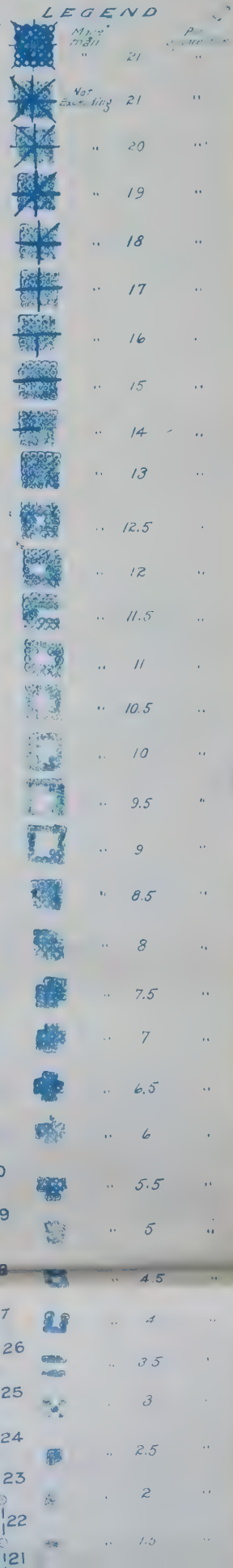
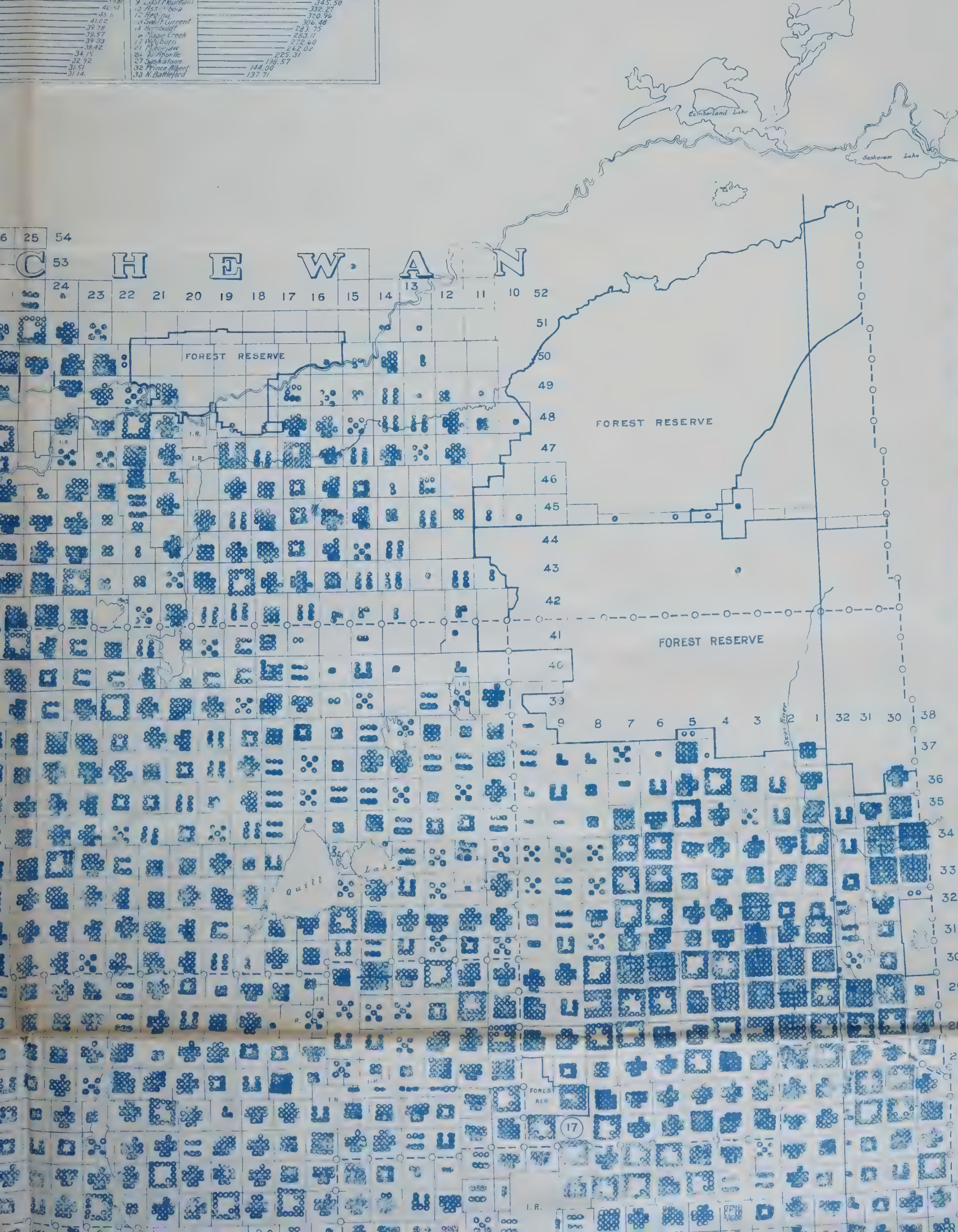
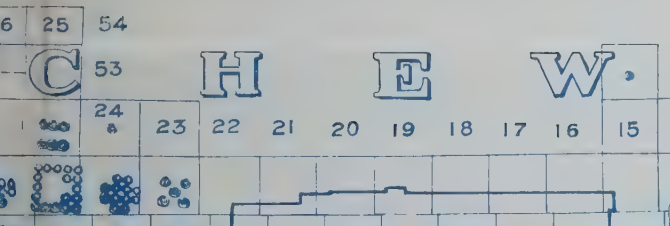
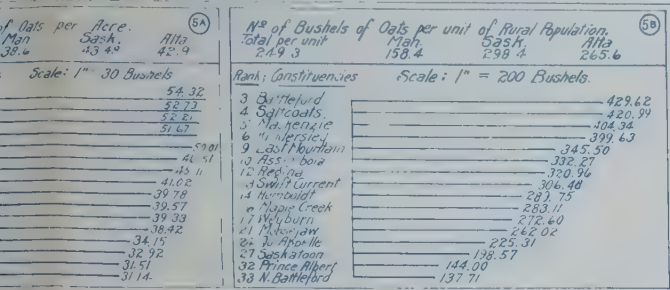
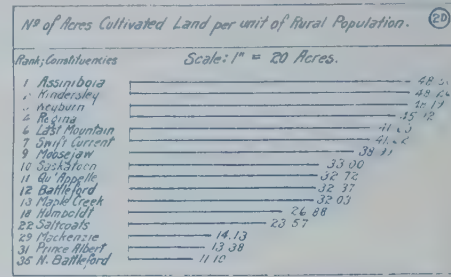
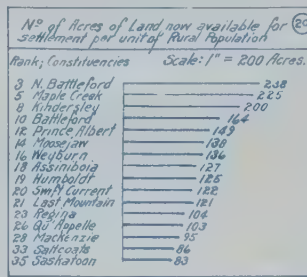
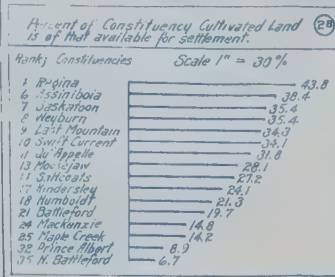
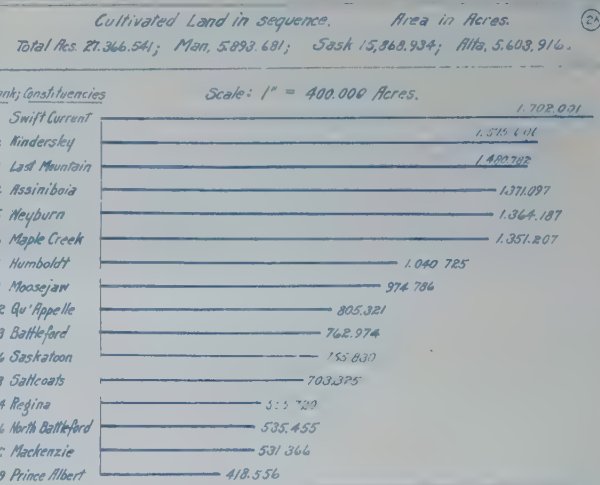
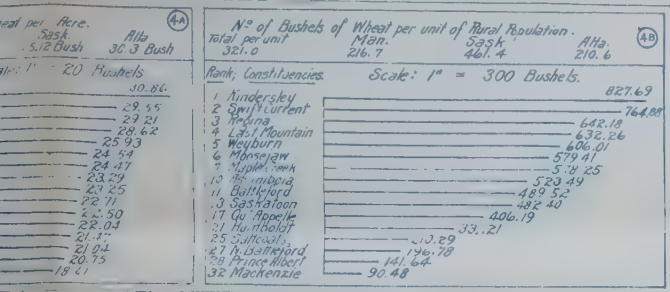
DEVELOPMENT BRANCH

DENNIS
MISSIONER

June 1916

Ownership, Federal Constituencies.
Output, Grain, Stock, Cultivated Land, Lands open for entry etc. etc.
Rank locates the subject treated for the whole of the said Provinces.

COMPILED BY W. PEARCE
January 25th Jan. 1916



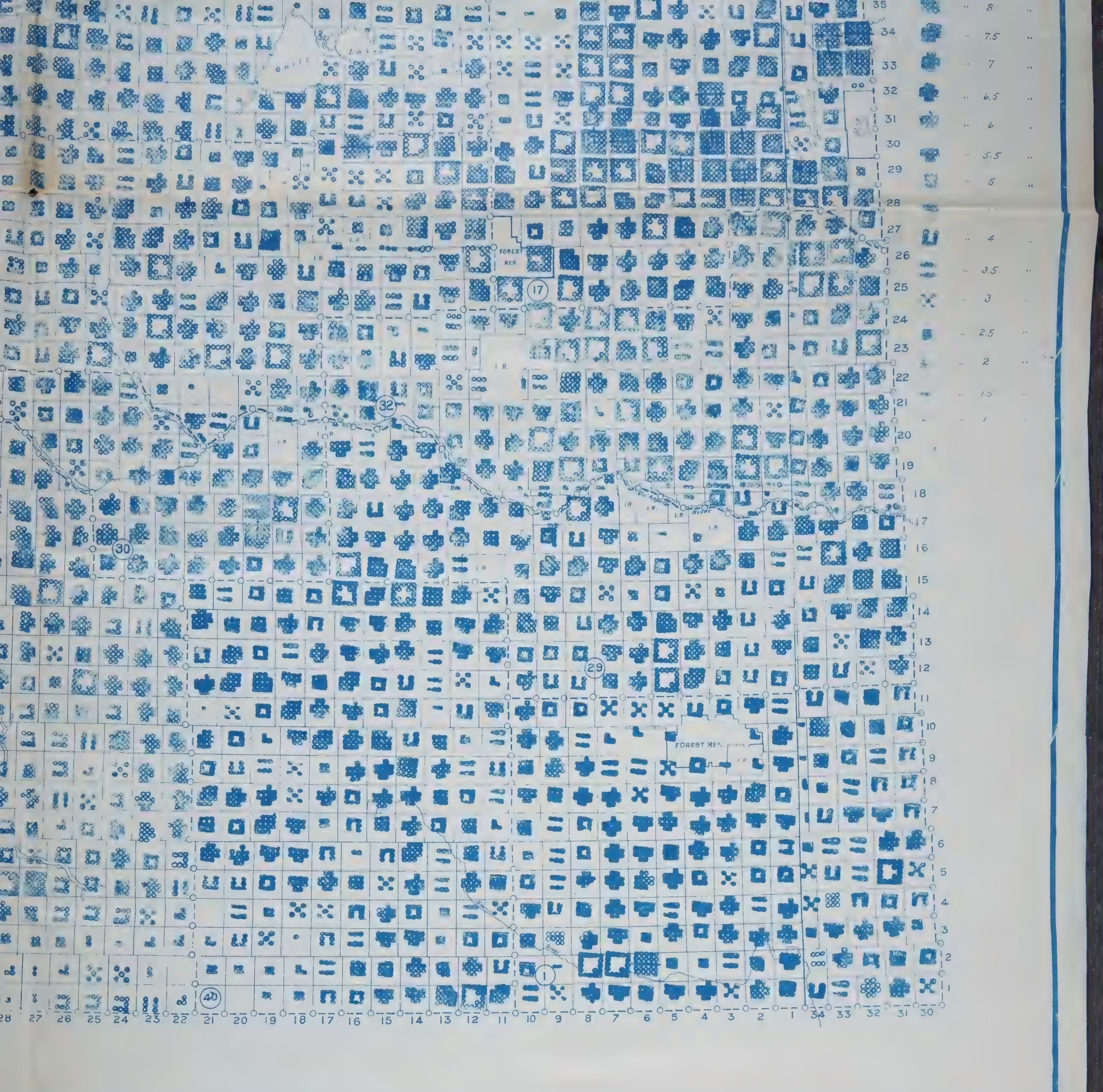


Table 1: Bushes per unit of Rural Pop.

Scale: 1" = 30 Bushels

Rank	Constituencies	Scale: 1" = 30 Bushels
1	Maple Creek	59.54
2	Swift Current	27.14
3	Weyburn	20.35
4	Regina	10.81
5	Prince Albert	2.12

Table 2: Total No. of Horses

Scale: 1" = 50,000

Rank	Constituencies	Scale: 1" = 50,000
1	Maple Creek	109,752
2	Swift Current	71,329
3	Weyburn	44,761
4	Regina	27,327
5	Prince Albert	2,945

Table 3: No. of Horses per unit of Rural Population

Scale: 1" = 1 Horse

Rank	Constituencies	Scale: 1" = 1 Horse
1	Maple Creek	2.40
2	Swift Current	2.29
3	Weyburn	2.17
4	Regina	2.12
5	Prince Albert	2.09

Table 4: Total No. of Cattle

Scale: 1" = 40,000

Rank	Constituencies	Scale: 1" = 40,000
1	Maple Creek	95,712
2	Swift Current	83,439
3	Weyburn	80,701
4	Regina	77,395
5	Prince Albert	72,182

Table 5: No. of Cattle per unit of Rural Population

Scale: 1" = 1 Head

Rank	Constituencies	Scale: 1" = 1 Head
1	Maple Creek	2.15
2	Swift Current	2.11
3	Weyburn	2.07
4	Regina	2.04
5	Prince Albert	2.01

Table 6: Sheep per unit of Rural Population

Scale: 1" = 1 Pg

Rank	Constituencies	Scale: 1" = 1 Pg
1	Maple Creek	1.45
2	Swift Current	1.35
3	Weyburn	1.29
4	Regina	1.24
5	Prince Albert	1.13

Table 7: Railway Mileage in Sequence not including double track

Scale: 1" = 300 Miles

Rank	Constituencies	Scale: 1" = 300 Miles
1	Maple Creek	519
2	Swift Current	515
3	Weyburn	510
4	Regina	427
5	Prince Albert	412

Table 8: Output per Mile of Railway

Scale: 1" = 40,000

Rank	Constituencies	Scale: 1" = 40,000
1	Maple Creek	101,241.62
2	Swift Current	85,387.84
3	Weyburn	80,104.34
4	Regina	72,182
5	Prince Albert	67,329

Table 9: Total Output per Farm

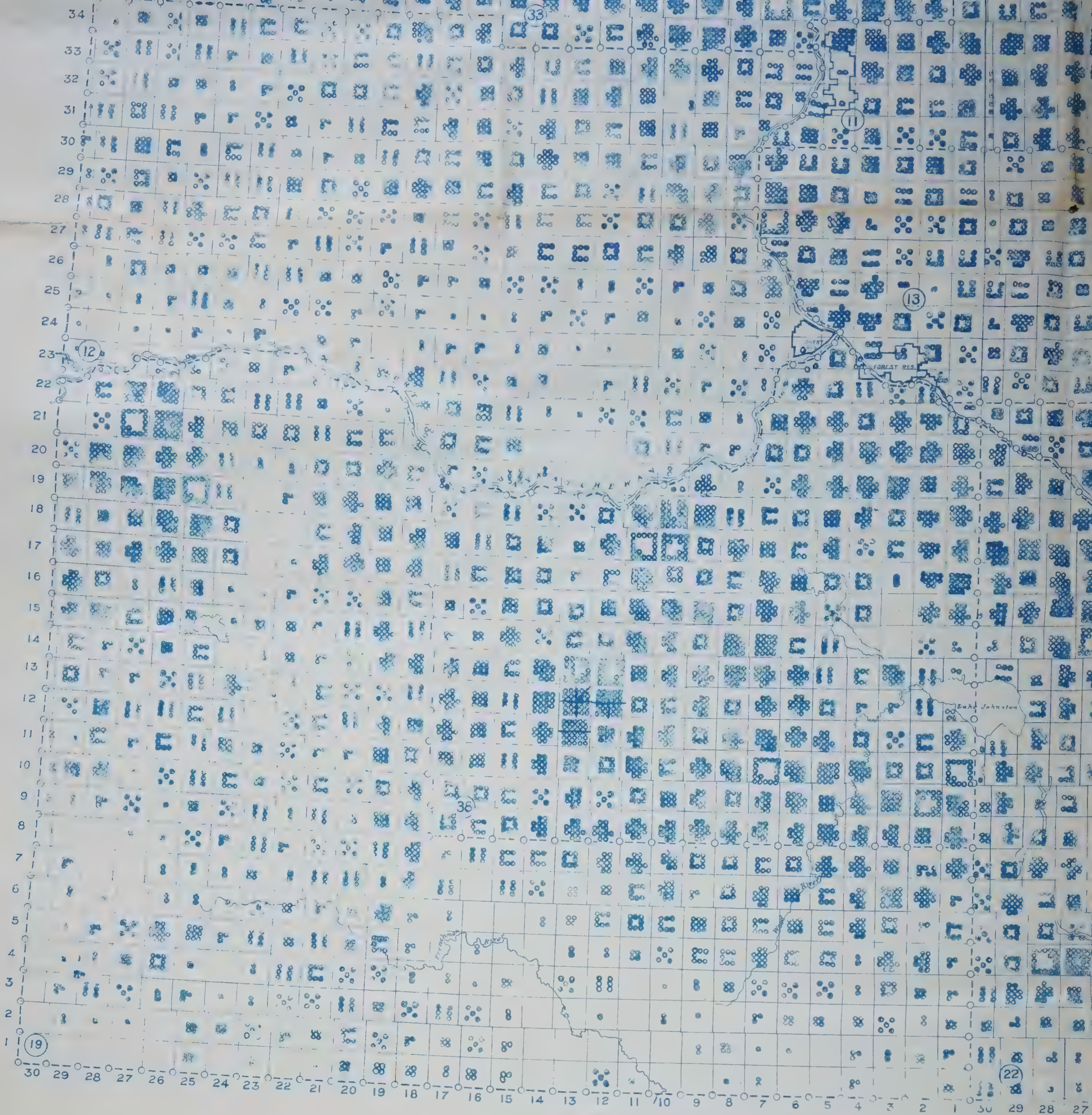
Scale: 1" = 10

Rank	Constituencies	Scale: 1" = 10
1	Maple Creek	4.82
2	Swift Current	4.68
3	Weyburn	4.58
4	Regina	4.45
5	Prince Albert	4.34

Table 10: Annual Output per Farm

Scale: 1" = 10

Rank	Constituencies	Scale: 1" = 10
1	Maple Creek	4.82
2	Swift Current	4.68
3	Weyburn	4.58
4	Regina	4.45
5	Prince Albert	4.34



Total Bush Barley
35.3% 11.2%
100%

Man 16,431,445
Sask 9,522,847
Alta 9,821,820
26.45%
27.29%

Rank, Constituencies Scale: 1" = 2 1/2 or 119.922

1 Assiniboia	3,660
2 Humboldt	3,355
3 Kindersley	2,270
4 Maple Creek	2,094
5 Qu'Appelle	1,810
6 Swift Current	1,750
7 Prince Albert	1,616
8 Battleford	1,500
9 MacKenzie	1,444
10 Last Mountain	1,364
11 Weyburn	1,239
12 Saskatoon	1,222
13 Regina	1,109
14 Moose Jaw	1,005
15 N. Battleford	957
16 Maple Creek	0.469

Bushels of Barley per Acre
Bush per acre
Total 30.56
Man 29.4
Sask 31.47
Alta 31.69

Rank, Constituencies Scale: 1" = 20 Bushels

1 Humboldt	40.10
2 Kindersley	37.22
3 Maple Creek	36.41
4 Swift Current	35.72
5 Qu'Appelle	35.43
6 Battleford	32.86
7 MacKenzie	31.38
8 Last Mountain	31.16
9 Weyburn	30.19
10 Saskatoon	29.42
11 Regina	28.31
12 Moose Jaw	28.30
13 N. Battleford	27.82
14 Prince Albert	27.05
15 Battleford	26.05

No of Bushels of Barley per unit of Rural Pop.
Total Bush per unit
Man 36.09
Sask 30.64
Alta 31.40

Rank, Constituencies Scale: 1" = 30 Bush

1 Assiniboia	47.06
2 Humboldt	37.22
3 Kindersley	36.41
4 Maple Creek	35.72
5 Qu'Appelle	35.43
6 Battleford	32.86
7 MacKenzie	31.38
8 Last Mountain	31.16
9 Weyburn	30.19
10 Saskatoon	29.42
11 Regina	28.31
12 Moose Jaw	28.30
13 N. Battleford	27.82
14 Prince Albert	27.05
15 Battleford	26.05

Total Bush Flax
6,045,363
100%

Man 120,179
Sask 5,254,875
Alta 670,309
1.99%
86.92%
11.09%

Rank, Constituencies Scale: 1" = 400,000

1 Kindersley	1,869,401
2 Maple Creek	1,748,295
3 Swift Current	838,706
4 Moose Jaw	558,747
5 Weyburn	239,115
6 Last Mountain	219,290
7 Assiniboia	111,384
8 Battleford	110,758
9 Humboldt	87,178
10 Qu'Appelle	32,413
11 Regina	18,446
12 Saskatoon	13,830
13 N. Battleford	12,249
14 Prince Albert	2,646
15 MacKenzie	1,315
16 Weyburn	1,162

Bushels of Flax per Acre
Bush per acre
Total 13.24
Man 8.29
Sask 13.29
Alta 14.31

Rank, Constituencies Scale: 1" = 10 Bushels

1 Kindersley	16.28
2 Maple Creek	14.45
3 Prince Albert	13.70
4 Swift Current	13.39
5 Weyburn	12.21
6 Last Mountain	12.11
7 Assiniboia	11.08
8 Battleford	10.49
9 Humboldt	10.23
10 Qu'Appelle	9.79
11 Regina	8.30
12 Saskatoon	8.24
13 N. Battleford	7.27
14 Prince Albert	6.54
15 MacKenzie	6.24
16 Weyburn	5.39

Total No of Sheep
492,511
100%

Man 76,751
Sask 104,237
Alta 291,523
15.38%
25.23%
39.19%

Rank, Constituencies Scale: 1" = 20,000 Sheep

1 Maple Creek	10,113
2 Assiniboia	8,263
3 Kindersley	7,513
4 Prince Albert	6,194
5 Qu'Appelle	5,449
6 Battleford	5,107
7 MacKenzie	4,482
8 Last Mountain	3,343
9 Weyburn	3,058
10 Saskatoon	2,395
11 Regina	2,395
12 Moose Jaw	2,280
13 N. Battleford	692
14 Kindersley	692

No of Sheep per unit of Rural Population
Total Sheep per unit
Man 44
Sask 24
Alta 25

Rank, Constituencies Scale: 1" = 1 Sheep

1 Maple Creek	0.44
2 Assiniboia	0.34
3 Kindersley	0.34
4 Prince Albert	0.24
5 Qu'Appelle	0.22
6 Battleford	0.22
7 MacKenzie	0.22
8 Last Mountain	0.19
9 Weyburn	0.16
10 Saskatoon	0.12
11 Regina	0.12
12 Moose Jaw	0.09
13 N. Battleford	0.07
14 Prince Albert	0.07
15 MacKenzie	0.06
16 Weyburn	0.06

Total No of Pigs
1,337,087
100%

Man 205,804
Sask 527,721
Alta 603,562
15.39%
39.47%
45.14%

Rank, Constituencies Scale: 1" = 30,000 Pigs

1 Humboldt	52,276
2 Last Mountain	45,858
3 Maple Creek	43,475
4 Kindersley	42,739
5 Swift Current	39,949
6 Battleford	38,967
7 Weyburn	35,175
8 Prince Albert	34,470
9 Assiniboia	31,528
10 N. Battleford	31,509
11 Saskatoon	21,248
12 Battleford	21,248
13 Moose Jaw	23,439
14 Saskatoon	22,743
15 MacKenzie	22,073
16 Regina	10,553

Number of Acres Cultivated per Farm
3 Provinces
No per Farm 125.8 Ac.
Man 125.2 Ac.
Sask 152.6 Ac.
Alta 83.5 Ac.

Rank, Constituencies Scale: 1" = 100

1 Assiniboia	284.34
2 Regina	245.01
3 Weyburn	209.06
4 Last Mountain	195.59
5 Qu'Appelle	174.19
6 Swift Current	174.56
7 Kindersley	172.97
8 Moose Jaw	158.79
9 Saskatoon	140.69
10 Battleford	133.31
11 Humboldt	130.92
12 Maple Creek	100.34
13 N. Battleford	81.82
14 MacKenzie	75.75
15 Prince Albert	69.05

Number of Farms
Total 219,105
100%

Man 47,122
Sask 104,006
Alta 67,977
21.51%
47.47%
31.02%

Rank, Constituencies Scale: 1" = 300

1 Maple Creek	9,750
2 Swift Current	8,602
3 Kindersley	7,949
4 Humboldt	7,083
5 Last Mountain	7,022
6 N. Battleford	6,544
7 Moose Jaw	6,139
8 Prince Albert	5,710
9 Battleford	5,267
10 Weyburn	4,992
11 Saskatoon	4,822
12 Assiniboia	4,385
13 Saskatoon	4,118
14 Qu'Appelle	2,097
15 Regina	2,097

Number of Acres Cultivated per Farm
3 Provinces
No per Farm 125.8 Ac.
Man 125.2 Ac.
Sask 152.6 Ac.
Alta 83.5 Ac.

Rank, Constituencies Scale: 1" = 100

1 Assiniboia	284.34
2 Regina	245.01
3 Weyburn	209.06
4 Last Mountain	195.59
5 Qu'Appelle	174.19
6 Swift Current	174.56
7 Kindersley	172.97
8 Moose Jaw	158.79
9 Saskatoon	140.69
10 Battleford	133.31
11 Humboldt	130.92
12 Maple Creek	100.34
13 N. Battleford	81.82
14 MacKenzie	75.75
15 Prince Albert	69.05

Number of Farms
Total 219,105
100%

Man 47,122
Sask 104,006
Alta 67,977
21.51%
47.47%
31.02%

Rank, Constituencies Scale: 1" = 300

1 Maple Creek	9,750
2 Swift Current	8,602
3 Kindersley	7,949
4 Humboldt	7,083
5 Last Mountain	7,022
6 N. Battleford	6,544
7 Moose Jaw	6,139
8 Prince Albert	5,710
9 Battleford	5,267
10 Weyburn	4,992
11 Saskatoon	4,822
12 Assiniboia	4,385
13 Saskatoon	4,118
14 Qu'Appelle	2,097
15 Regina	2,097

Number of Pigs
Total 1,337,087
100%

Man 205,804
Sask 527,721
Alta 603,562
15.39%
39.47%
45.14%

Rank, Constituencies Scale: 1" = 10

1 Regina	13.19
2 Qu'Appelle	12.46
3 Assiniboia	12.46
4 Weyburn	11.06
5 Last Mountain	10.03
6 Moose Jaw	9.14
7 Maple Creek	8.49
8 Swift Current	7.83
9 Battleford	7.63
10 Prince Albert	7.33
11 Saskatoon	6.25
12 N. Battleford	6.25
13 MacKenzie	5.67
14 Kindersley	5.67

Cattle per Farm
Total 2,723,416
100%

Man 534,193
Sask 1,010,143
Alta 1,179,080
19.3%
37.1%
43.6%

Rank, Constituencies Scale: 1" = 10

9 Qu'Appelle	14.76
11 Saskatoon	14.76
12 Assiniboia	14.76
13 Prince Albert	14.76
14 MacKenzie	14.76
15 Battleford	14.76
16 N. Battleford	14.76
17 Weyburn	14.76
18 Last Mountain	14.76
19 Swift Current	14.76
20 Moose Jaw	14.76
21 Battleford	14.76
22 Saskatoon	14.76
23 N. Battleford	14.76
24 MacKenzie	14.76
25 Kindersley	14.76
26 Maple Creek	14.76
27 Regina	14.76
28 Weyburn	14.76
29 Prince Albert	14.76
30 Assiniboia	14.76
31 Battleford	14.76
32 Last Mountain	14.76
33 Humboldt	14.76

Cattle per Farm
Total 2,723,416
100%

Man 534,193
Sask 1,010,143
Alta 1,179,080
19.3%
37.1%
43.6%

Rank, Constituencies Scale: 1" = 10

9 Qu'Appelle	14.76
11 Saskatoon	14.76
12 Assiniboia	14.76
13 Prince Albert	14.76
14 MacKenzie	14.76
15 Battleford	14.76
16 N. Battleford	14.76
17 Weyburn	14.76
18 Last Mountain	14.76
19 Swift Current	14.76
20 Moose Jaw	14.76
21 Battleford	14.76
22 Saskatoon	14.76
23 N. Battleford	14.76
24 MacKenzie	14.76
25 Kindersley	14.76
26 Maple Creek	14.76
27 Regina	14.76
28 Weyburn	14.76
29 Prince Albert	14.76
30 Assiniboia	14.76
31 Battleford	14.76
32 Last Mountain	14.76
33 Humboldt	14.76

1817

1817

1817

1817

1817

MUNICIPALITIES-NUMERICAL

MUNICIPALITIES—ALPHABETICAL

MUNICIPALITY

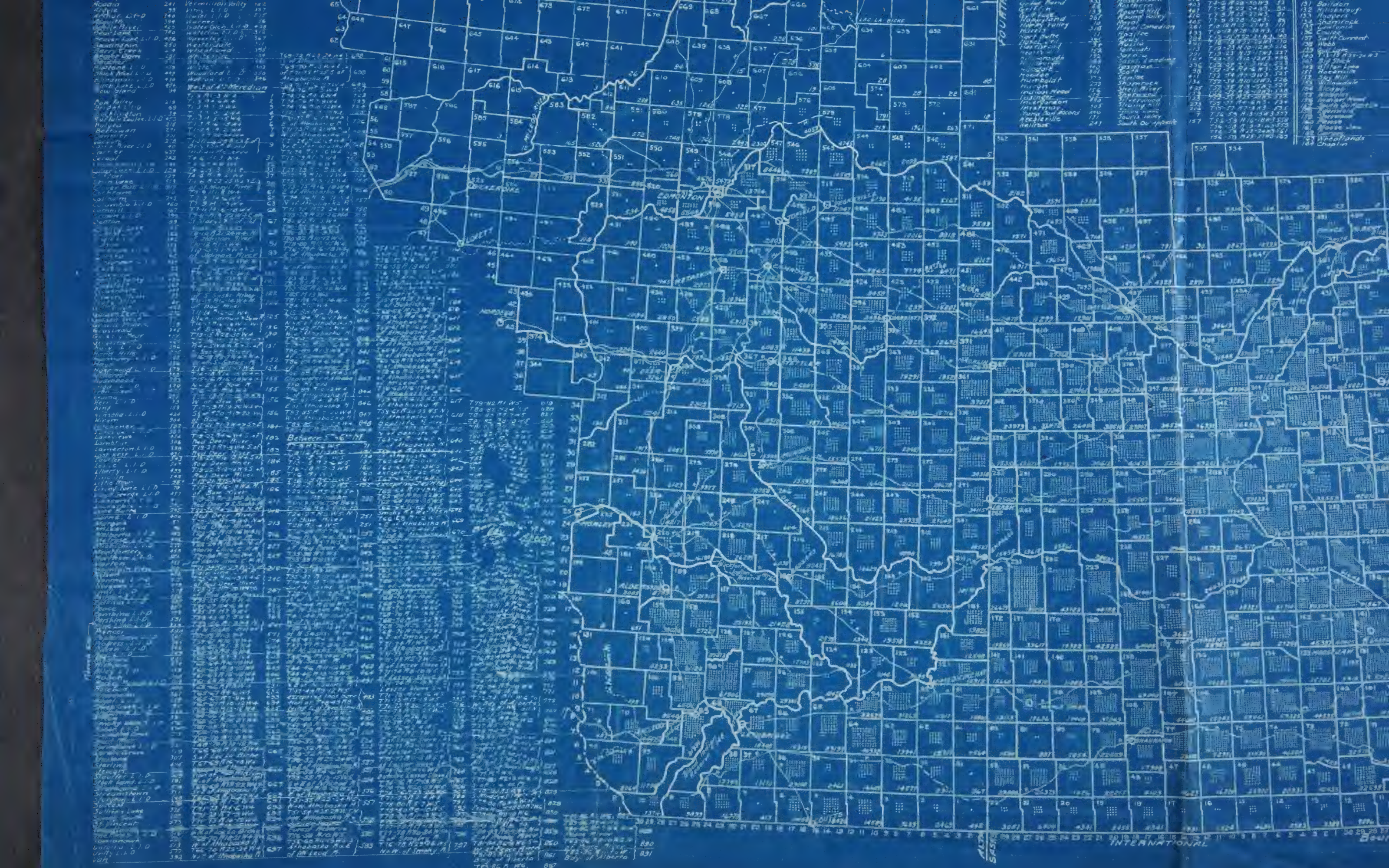
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NOTE - L.I.D. Refers to
Local Improvement
District

MUNICIPALITIES-
ALPHABETICAL

Legend:

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The attached; map of Saskatchewan and several graphs thereon.

On the map each township in which there is any Rural Population, the same is represented by dots. By adding one to the number of dots and dividing the sum by two, gives the Rural Population per square mile in said township up to 13. Above 13 see legend. The object sought to be obtained is that the map will represent clearly and readily the differences in density of population.

The three Prairie Provinces contain 43 Federal Constituencies and in each except the three for Winnipeg, there is a Rural Population. A list of these Constituencies arranged alphabetically showing in which Province it is located may be found at the upper left hand corner. In reference to production there are only 40 constituencies shown, the three for Winnipeg being for obvious reasons omitted.

The Rural Population differs from the number given in the Census as 1% of the Cities, 8% of the Towns and 20% of the Villages has been assumed as engaged in rural operations and therefore have been added to the number given by the Census in the constituencies where the same are situated.

As to Annual Output, see note to special graph No. 3.

SPECIAL GRAPHS.

There are also 13 special graphs, numbered 1 to 13.

No. 1.- 2 Sections. 1. Showing Total Population in order of numbers, and thereon by solid bar the Rural Population. 1A. Shows Rural Population in sequence of numbers.

No. 2.- 5 Sections. 2. Showing the area in acres of the lands now available for settlement. 2A. Area of cultivated land in sequence. 2B. Percentage of constituency that cultivated land is of that available for settlement. 2C. Number of acres available for settlement per unit of Rural Population. 2D. Acres of cultivated land per unit of Rural Population.

No. 3.- 2 Sections. 3. Total Annual Output. 3A. Annual Output per unit of Rural Population. (See note representing Annual Output.)

No. 4.- 3 Sections. 4. Total Bushels of wheat. 4A. Bushels of wheat per acre. 4B. Bushels of wheat per unit of Rural Population.

No. 5.- 3 Sections. 5. Total bushels of oats. 5A. Bushels of oats per acre. 5B. Bushels of oats per unit of Rural Population.

No. 6.- 3 Sections. 6. Total bushels of barley, 6A. Bushels of barley per acre. 6B. Bushels of barley per unit of Rural Population.

No. 7.- 3 Sections. 7. Total bushels of flax. 7A. Bushels of flax per acre. 7B. Bushels of flax per unit of Rural Population.

No. 8.- 2 Sections. 8. Total number of horses. 8A. Number of horses per unit of Rural Population.

No. 9.- 2 Sections. 9. Total number of cattle. 9A. Number of cattle per unit of Rural Population.

No. 10.- 2 Sections. 10. Total number of sheep. 10A. Number of sheep per unit of Rural Population.

No. 11.- 2 Sections. 11. Total number of pigs. 11A. Number of pigs per unit of Rural Population.

No. 12.- 3 Sections. 12. Total railway mileage in sequence. 12A. Rural Population per mile of Railway. 12B. Annual Output per mile of railway.

No. 13.- 8 Sections. 13. Number of farms. 13A. Number of acres per farm. 13B. Number of horses per farm. 13C. Number of cattle per farm. 13D. Number of sheep per farm. 13E. Number of pigs per farm. 13F. Number of Rural Population per farm. 13G. Annual Output per farm.

Calgary, Alberta. 25th January, 1918.

J. H. Price



It is thought the points selected fairly represent the Natural Gas Companies
 (1) The Various States of the U. S. and Canada in which Natural Gas Coys. Operate
 (2) The companies in the said States of the Union and also Canada.

NATURAL GAS COMPANIES OF UNITED STATES & CANADA

Authority - Bureau of Census, U. S. Department of Commerce
 Progress
 52 Years

Page	State or Country	Town or City	Name of Company	Capital including Bonds	No. of M. S. Pipe Line	No. of Wells	Production in Million feet	Purchased in Million feet	No. of Domestic Customers	No. of Industrial Customers	Cost per 1000 ft. Domestic Customers	Cost per 1000 ft. Industrial Customers	Total receipts for Gas for Year	Remarks
460	Arkansas	Fort Smith	Southwestern General Gas Coy.	\$1,470,000		73	1846				35¢ to 6¢			Supplies Fort Smith Light & Traction Coy. Controlled by Standard
"	"	Little Rock	Arkansas Natural Gas Coy.	\$1,203,500		36	8343	including	19,130	242	42¢	20¢ to 25¢	\$2,067,301	Supplies Little Rock and 20 other points through local C
462	California	Los Angeles	Economic Gas Coy.	\$1,494,166	52			all	5500	300	64.5¢	25¢	\$229,357	Supplies part Los Angeles.
464	"	Taft	West Side Gas Coy.	\$200,000				101	1,160	4	75¢ to 35¢	25¢ to 16¢	\$42,371	Supplies Taft and Maricopa
470	Indiana	Muncie	Central Indiana Gas Coy.	\$1,489,000	411			3232	16,852	300	70¢	35¢		Supplies Muncie and 6 other points
"	"	New Castle	Interstate Public Service Coy.		26	17	14	19.5	2,384	6	40¢ to 30¢		\$72,812	Supplies New Castle. Parent Coy. Interstate Public Services
478	Kansas	Independence	Kansas Natural Gas Coy.	\$8,582,880	1200				127,000		35¢ to 50¢			Supplies Kansas (Kang Mo.) and 49 other points in Kansas and
479	"	Kansas City	Wyandotte County Gas Coy.	\$2,341,000	185			709	19,243		50¢			Supplies Kansas and Rosedale. Used largely for Street L
482	Kansas	Wichita	The Western Distributing Coy.	\$175,000	78			918	6,630		27¢		\$80,677	Supplies El Dorado and 21 other points. Operated by Doherty
483	Kentucky	Covington	Union Light and Power Coy.	\$2,375,000	160			2549	26,733		35¢ gross 30¢ net		\$77,872	Supplies Covington and 11 other points. Controlled by Columbia G
484	"	Louisville	Louisville Gas and Electric Coy.	\$11,476,100	190						39¢			Supplies Louisville and 5 other points. Controlled by Stand
486	Missouri	Kansas	Kansas City Gas Coy.	\$4,125,000	533			2858	57,050		80¢			Supplies Kansas Mo. Used largely for Street Lighting
489	New York	Batavia	The Alden Batavia Natural Gas	\$300,000	147	100	358	36	4,444		34¢		\$124,912	Supplies Batavia and 5 other points. Operated by Doherty
490	"	Buffalo	Troquois Natural Gas Coy.	\$10,000,000	1136	315			88,681		37¢ to 40¢			Supplies Buffalo and 12 other points
491	"	Elmira	Elmira Water, Light & R.R. Coy.	\$7,707,000	75			473	8,670		52.5¢		\$219,349	Supplies Elmira and 2 other points
492	"	Le Roy	Pavilion Natural Gas Coy.	\$100,000	162	45	589		5,500		40¢		\$199,884	Supplies Le Roy and 5 other points. Controlled by Indep
495	"	Wellsville	Empire Gas and Fuel Coy.	\$1,000,000	85	600			4,359		37¢			Supplies Wellsville and 10 other points
496	Ohio	Alliance	Alliance Gas & Power Coy.	\$1,218,600	55			626	5,322		50¢		\$207,934	Supplies Alliance. Operated by Doherty Organiza
496	"	Ashtabula	Ashtabula Gas Coy.	\$260,000	52			400	5,700		36¢ gross 30¢ net		\$202,000	Supplies Ashtabula.
"	"	Berea	Berea Pipe Line Coy.	\$450,000	107	44	692		1,479	33	35¢	30¢	\$181,894	Supplies Berea and 6 other points. Operated by Doh
497	"	Cincinnati	Union Gas & Electric Coy.	\$1,591,000	727			15942	117,785		40¢ gross 30¢ net		\$4,408,053	Supplies Cincinnati etc. Operated by Doherty Org
"	"	Cleveland	East Ohio Gas Coy.	\$40,000,000					320,000		38¢ gross 30¢ net			Supplies Cleveland and 35 other points
498	"	Columbus	Columbus Gas & Fuel Coy.	\$19,332,000	325			6821	44,097	121	30¢	30¢ to 16.5¢	\$1,542,993	Supplies Columbus and 4 other points. Controlled by Chi
"	"	"	Federal Gas & Fuel Coy.	\$1,071,000	139			3038	14,405	192	30¢	16.5¢	\$640,569	Supplies Columbus. Controlled by Ohio Cities
"	"	Conneaut	Northwestern Oil & Gas Coy.	\$500,000	58	22	1400	1200	10,000		36¢		\$385,000	Supplies Conneaut and 7 other points
499	"	Dayton	Dayton Gas Coy.	\$3,842,500				3509	32,000	100	34¢		\$882,500	Supplies Dayton. Controlled by Ohio Cities G
500	"	Hamilton	Hamilton City Gas Works	\$274,500	68				7800		30¢	30¢	\$180,471	Supplies Hamilton. Municipal Plant.
502	"	Lima	Lima Natural Gas Coy.	\$750,000				748	10,626		70¢ to 45¢	50¢		Supplies Lima and two other points
505	"	Sandusky	Sandusky Gas & Electric Coy.	\$1,850,000	64			939	3,650	150	50¢		\$282,884	Supplies Sandusky.
506	"	Springfield	Springfield Gas Coy.	\$1,010,000	125			1932	12,629		30¢		\$455,587	Supplies Springfield. Controlled by Ohio Cities Gas C
513	Oklahoma	Guthrie	Guthrie Gas Fuel & Improvement Coy.	\$250,000					2400	17	35¢ gross 31.5¢ net	27¢ to 22.5¢	\$120,000	Supplies Guthrie
515	"	Muskogee	Muskogee Gas & Electric Coy.	\$3,915,600	117				5943	36	35¢ to 25¢		\$463,649	Supplies Muskogee. Controlled by Oklahoma Gas & Ele
515	"	Oklahoma City	Oklahoma Gas & Electric Coy.	\$9,138,500	201			7102	15780		31.5¢ to 22.5¢			Supplies Oklahoma City and 4 other points. Controlled by
518	"	Tulsa	Oklahoma Natural Gas Coy.	\$11,550,000	1000	388			55,000		25¢	10¢ to 20¢		Supplies Tulsa and 44 other points. Includes 88 oil we
523	Pennsylvania	Johnstown	Johnstown Fuel Supply Coy.	\$400,000					10,000	3	35¢		\$280,000	Supplies Johnstown and 8 other points.
530	"	Pittsburg	Ohio Fuel Supply Coy.	\$19,813,000	3056	1450	20,536	15343	60,822	308	30¢	30¢	\$7,433,243	Supplies Columbus and 70 other points. Includes 97
"	"	"	Potter Gas Coy.	\$2,300,000	504	537	2550	1571	18,098		30¢ to 40¢		\$628,495	Supplies Coudersport and 20 other points
"	"	"	The Peoples Natural Gas Coy.	\$11,000,000	1867	970	9322	19938	73,636	175	42¢ to 37¢		\$5,000,000	Supplies Adamsburg and 71 other points. Includes
531	"	"	Union Natural Gas Corp.	\$12,496,000	3042	1164			154,820	1924			\$6,333,787	Supplies 70 points in Ohio and through other Coys. 34 p
534	"	Uniontown	Fayette County Gas Coy.	\$1,600,000	235	29	393	1522	11,904	22	33¢	25¢	\$535,467	Supplies Uniontown and 3 other points
"	"	Warren	Pennsylvania Gas Coy.	\$7,200,000		386			39,286		37¢ gross 30¢ net		\$1,631,209	Supplies Erie and 4 other points

which fairly represent the Natural Gas Companies
U.S. and Canada in which Natural Gas Coys. Operate
all States of the Union and also Canada.

NATURAL GAS COMPANIES OF UNITED STATES & CANADA

Authority - Bureau of American Gas Companies Gas Statistics 1919
Progressive Publishing Company
52 Vanderbilt Ave. New York.

Name of Company	Capital including Bonds	No of Mile Pipe Line	No of Wells	Production in Million feet	Purchased in Million feet	No of Domestic Customers	No of Industrial Customers	Cost per 100 ft Domestic Customers	Cost per 100 ft Industrial Customers	Total receipts for Gas per Year	Remarks
Southwestern General Gas Coy.	\$1,470,000		73	1846				35¢ to 6¢			Supplies Fort Smith Light & Traction Coy. Controlled by Standard Gas and Electric Coy.
Arkansas Natural Gas Coy.	\$12,036,500		36	8343	including	19,130	245	45¢	20¢ to 25¢	\$2,067,301	Supplies Little Rock and 25 other points through local Coys. Includes 60 oil wells
Economic Gas Coy.	\$1,494,166	52			all	5,600	500	64.5¢	25¢	\$229,357	Supplies Port Los Angeles
West Side Gas Coy.	\$200,000				101	1,160	4	75¢ to 35¢	25¢ to 16¢	\$42,371	Supplies Taft and Maricopa
Central Indiana Gas Coy.	\$8,489,000	411			32,332	18,852	300	70¢	35¢		Supplies Muncie and 5 other points
Interstate Public Service Coy.		26	17	14	19.8	2,384	6	40¢ to 30¢		\$72,812	Supplies New Castle. Parent Coy. Interstate Public Services of Indianapolis Cap. \$17,377,000
Kansas Natural Gas Coy.	\$8,582,850	1200				127,000		35¢ to 80¢			Supplies Kansas (Kan. Mo.) and 49 other points in Kansas and Missouri.
Lyndotte County Gas Coy.	\$2,341,000	188			709	15,243		80¢			Supplies Kansas and Pasadena. Used largely for Street lighting and cooking
The Western Distributing Coy.	\$175,000	78			918	6,630		27¢		\$80,677	Supplies El Dorado and 7 other points. Operated by Doherty Organization
Union Light and Power Coy.	\$2,375,000	160			2549	26,733		35¢ gross 30¢ net		\$77,872	Supplies Covington and 11 other points. Controlled by Columbia Gas and Electric Coy.
Louisville Gas and Electric Coy.	\$17,476,100	190						39¢			Supplies Louisville and 5 other points. Controlled by Standard Gas and Electric Coy.
Kansas City Gas Coy.	\$4,125,000	533			2,858	57,080		80¢			Supplies Kansas Mo. Used largely for Street Lighting + cooking
The Alden Batavia Natural Gas	\$300,000	147	100	358	36	4,444		34¢		\$124,912	Supplies Batavia and 5 other points. Operated by Doherty Organization
Cherokee Natural Gas Coy.	\$10,000,000	1136	315			88,681		37¢ to 40¢			Supplies Buffalo and 12 other points
Elmira Water, Light & RR. Coy.	\$7,707,000	75			473	8,670		52.5¢		\$219,349	Supplies Elmira and 2 other points
Aviation Natural Gas Coy.	\$100,000	162	45	589		5,500		40¢		\$199,884	Supplies Le Roy and 5 other points. Controlled by Independent Natural Gas Coy.
Empire Gas and Fuel Coy.	\$1,000,000	85	600			4,359		37¢			Supplies Wellsville and 10 other points
Alliance Gas & Power Coy.	\$1,218,600	55			626	5,322		50¢		\$207,934	Supplies Alliance. Operated by Doherty Organization
Ashtabula Gas Coy.	\$260,000	52			400	5,700		36¢ gross 34¢ net		\$202,000	Supplies Ashtabula
Berea Pipe Line Coy.	\$450,000	107	44	692		1,479	33	35¢	30¢	\$181,894	Supplies Berea and 6 other points. Operated by Doherty Organization
Union Gas & Electric Coy.	\$1,591,000	727			15,942	117,785		45¢ gross 35¢ net		\$440,805	Supplies Cincinnati etc. Operated by Doherty Organization
East Ohio Gas Coy.	\$40,000,000					320,000		30¢ gross 28¢ net			Supplies Cleveland and 35 other points
Columbus Gas & Fuel Coy.	\$19,332,000	325			6821	44,097	121	30¢	30¢ to 14.5¢	\$1,542,993	Supplies Columbus and 4 other points. Controlled by Ohio Cities Gas Coy.
General Gas & Fuel Coy.	\$1,071,000	139			3038	14,405	132	30¢	16.5¢	\$640,569	Supplies Columbus. Controlled by Ohio Cities Gas Coy.
Northwestern Oil & Gas Coy.	\$500,000	58	22	1400	1200	10,000		36¢		\$385,000	Supplies Conneaut and 7 other points
Dayton Gas Coy.	\$3,842,500				3509	32,000	100	34¢		\$882,500	Supplies Dayton. Controlled by Ohio Cities Gas Coy.
Hamilton City Gas Works	\$274,500	68				7800		30¢	30¢	\$180,471	Supplies Hamilton. Municipal Plant.
Lima Natural Gas Coy.	\$750,000				748	10,626		70¢ to 45¢	50¢		Supplies Lima and two other points
Sandusky Gas & Electric Coy.	\$1,350,000	64			939	5,650	150	50¢		\$282,864	Supplies Sandusky.
Springfield Gas Coy.	\$1,010,000	125			1932	12,629		30¢		\$455,567	Supplies Springfield. Controlled by Ohio Cities Gas Coy.
Guthrie Gas, Fuel & Improvement Coy.	\$250,000					2400	17	35¢ gross 31.5¢ net	27¢ to 22.5¢	\$120,000	Supplies Guthrie
Muskogee Gas & Electric Coy.	\$3,915,600	117				5943	36	35¢ to 25¢		\$463,649	Supplies Muskogee. Controlled by Oklahoma Gas & Electric Coy.
Oklahoma Gas & Electric Coy.	\$9,158,500	201			7102	15,760		31.5¢ to 22.5¢			Supplies Oklahoma City and 4 other points. Controlled by Standard Gas & Electric Coy.
Oklahoma Natural Gas Coy.	\$11,550,000	1000	388			55,000		25¢	10¢ to 25¢		Supplies Tulsa and 44 other points. Includes 88 oil wells.
Johnstown Fuel Supply Coy.	\$400,000					10,000	3	35¢		\$280,000	Supplies Johnstown and 8 other points.
Ohio Fuel Supply Coy.	\$19,813,000	3056	1450	20,536	15,343	60,822	309	30¢	20¢	\$7,433,243	Supplies Columbus and 70 other points. Includes 97 oil wells
Walter Gas Coy.	\$2,900,000	504	537	2550	1571	18,098		30¢ to 40¢		\$628,495	Supplies Coudersport and 20 other points
The Peoples Natural Gas Coy.	\$11,000,000	1867	970	9382	19,938	73,636	175	42¢ to 37¢		\$5,000,000	Supplies Adamsburg and 71 other points. Includes 25 oil wells.
Union Natural Gas Corp.	\$12,496,000	3042	1164			154,520	1924			\$633,787	Supplies 70 points in Ohio and through other Coys 34 points in Ohio and Indiana
Yvette County Gas Coy.	\$1,600,000	235	25	393	1522	11,904	22	53¢	25¢	\$535,467	Supplies Uniontown and 31 other points
Pennsylvania Gas Coy.	\$7,200,000		386			39,286		37¢ gross 35¢ net		\$1,031,209	Supplies Erie and 4 other points

Union Gas & Electric Coy.	\$ 1,591,000	727	44	1592	1479	33	35 ⁺	30 ⁺	\$ 181,894	Supplies Berea and 6 other points. Operated by Doherty Organization
East Ohio Gas Coy.	\$ 40,000,000				117,785		46 ⁺ gross 35 ⁺ net		\$ 4,408,053	Supplies Cincinnati etc. Operated by Doherty Organization
Columbus Gas & Fuel Coy.	\$ 19,332,000	325		6821	44,097	121	30 ⁺	30 ⁺ to 195 ⁺	\$ 1,542,993	Supplies Cleveland and 35 other points
Federal Gas & Fuel Coy.	\$ 1,071,000	139		3038	14,405	132	30 ⁺	16.5 ⁺	\$ 640,569	Supplies Columbus and 4 other points. Controlled by Ohio Cities Gas Coy.
Northwestern Oil & Gas Coy.	\$ 500,000	58	22	1400	1200		36 ⁺		\$ 386,000	Supplies Conneaut and 7 other points
Dayton Gas Coy.	\$ 3,842,500			3509	32,000	100	34 ⁺		\$ 882,500	Supplies Dayton. Controlled by Ohio Cities Gas Coy.
Hamilton City Gas Works	\$ 274,500	68			7800		30 ⁺	30 ⁺	\$ 180,471	Supplies Hamilton. Municipal Plant.
Lima Natural Gas Coy.	\$ 750,000			748	10,626		70 ⁺ to 45 ⁺	50 ⁺		Supplies Lima and two other points
Sandusky Gas & Electric Coy.	\$ 1,350,000	64		939	3650	150	50 ⁺		\$ 282,864	Supplies Sandusky.
Springfield Gas Coy.	\$ 1,010,000	125		1932	12,629		30 ⁺		\$ 455,567	Supplies Springfield. Controlled by Ohio Cities Gas Coy.
Guthrie Gas, Fuel & Improvement Coy.	\$ 250,000				2400	17	35 ⁺ gross 31 ⁺ net	27 ⁺ to 22 ⁺	\$ 120,000	Supplies Guthrie
Muskogee Gas & Electric Coy.	\$ 3,915,600	117			5943	36	35 ⁺ to 25 ⁺		\$ 463,649	Supplies Muskogee. Controlled by Oklahoma Gas & Electric Coy.
Oklahoma Gas & Electric Coy.	\$ 9,158,500	201		7102	15,780		31.5 ⁺ to 22.5 ⁺			Supplies Oklahoma City and 4 other points. Controlled by Standard Gas & Electric Coy.
Oklahoma Natural Gas Coy.	\$ 11,550,000	1000	388		55,000		25 ⁺	18 ⁺ to 20 ⁺		Supplies Tulsa and 44 other points. Includes 88 oil wells.
Johnstown Fuel Supply Coy.	\$ 400,000				10,000	3	35 ⁺		\$ 280,000	Supplies Johnstown and 8 other points.
Ohio Fuel Supply Coy.	\$ 19,813,000	3056	1450	20,536	163,43	308	30 ⁺	30 ⁺	\$ 7,433,243	Supplies Columbus and 70 other points. Includes 97 oil wells
Palmer Gas Coy.	\$ 2,900,000	504	537	2550	15,71		30 ⁺ to 40 ⁺		\$ 6,284,95	Supplies Coudersport and 20 other points
The Peoples Natural Gas Coy.	\$ 11,000,000	1867	970	9332	19,938	175	42 ⁺ to 37 ⁺		\$ 5,000,000	Supplies Adamsburg and 71 other points. Includes 25 oil wells
Union Natural Gas Corp.	\$ 12,456,000	3042	1164		154,520	1924			\$ 6,333,787	Supplies 70 points in Ohio and through other Coys 34 points in Ohio and Indiana
Wayne County Gas Coy.	\$ 1,600,000	235	28	393	15,22	22	33 ⁺	25 ⁺	\$ 535,467	Supplies Uniontown and 31 other points
Pennsylvania Gas Coy.	\$ 7,200,000		384		39,286		37 ⁺ gross 35 ⁺ net		\$ 1,631,209	Supplies Erie and 4 other points
Dallas Gas Coy.	\$ 1,850,000	250		All	22,490	100	50 ⁺		\$ 585,000	Supplies Dallas and Suburbs
North Texas Gas Coy.	\$ 830,000			3655	15,270	48	75 ⁺ to 21 ⁺	21 ⁺	\$ 883,438	Supplies Byers and 16 other points
Fort Worth Gas Coy.	\$ 1,600,000						45 ⁺ to 21 ⁺			Supplies Fort Worth and Suburbs
Spokane-Benton County Nat Gas Coy.	\$ 1,500,000						75 ⁺	30 ⁺		Supplies Spokane and other points
United Fuel Gas Coy.	\$ 30,422,000	1448	798	57035	33,537	184	30 ⁺ to 16 ⁺			Supplies Ashland and 48 other points and sells to 7 Coys.
West Virginia & Maryland Gas Co.	\$ 2,150,000	400			14,296		32 ⁺ to 40 ⁺			Supplies Davis and 7 other points
West Virginia Central Gas Co.	\$ 20,000,000	250	150		5383		17 ⁺ to 30 ⁺			Supplies Buckhannon and 4 other points
Monongahela Valley Traction Co.	\$ 27,631,000	210	120	3000	5900	100	29 ⁺	25 ⁺	\$ 500,000	Supplies Fairmont and 5 other points
Richmond & W. Virginia Gas Coy.	\$ 6,750,000	1263	1217	23,219	4021	107	30 ⁺ to 22 ⁺		\$ 4,096,753	Supplies Grafton and 5 other points.
C A N A D A										
Canadian Western Nat. Gas Light	\$ 12,499,992	500	22	5882	11,047	47	32 ⁺	16 ⁺	\$ 1,044,160	Supplies Calgary and 10 other points
City of Medicine Hat Gas Dept.		51	15	2180	2,500	20	20 ⁺	5 ⁺	\$ 180,000	Supplies Medicine Hat Municipal Plant.
Canadian Western Power & Fuel Coy.		21	4	370	315	7	15 ⁺ gross 13 ⁺ net	25 ⁺	\$ 35,000	Supplies Redcliff.
Moncton Tramways Electricity & Gas Co.	\$ 2,900,400	59		778	2,340	60	48 ⁺	40 ⁺	\$ 253,511	Supplies Moncton and Suburbs.
Edina Natural Gas Coy.	\$ 339,400	20	24	58	1000		30 ⁺ to 23.5 ⁺		\$ 31,284	Supplies Aylmer and 2 other points
Brantford Gas Coy.	\$ 406,820	58		836	5329	56	42 ⁺		\$ 140,147	Supplies Brantford. Controlled by Dominion Gas Coy. Operated by Doherty Organization
Chatham Gas Coy.	\$ 334,400	18	60		3000	50	30 ⁺ to 25 ⁺	25 ⁺	\$ 229,000	Supplies Chatham
Dominion Natural Gas Coy.	\$ 1,250,000	649	775	1967	29,990	181	24 ⁺ to 32 ⁺	25 ⁺ to 33 ⁺	\$ 896,942	Supplies Hamilton and 24 other points + 5 Coys.
United Gas & Fuel Coy.	\$ 2,050,000	232		1036	10,736	60	45 ⁺	45 ⁺	\$ 418,181	Supplies Hamilton
Provincial Nat. Gas & Fuel Coy.	\$ 600,000		220	475	6000		42 ⁺ gross 40 ⁺ net		\$ 246,335	Supplies Bridgburg and 5 points
United Gas Coys Ltd.	\$ 800,000	82	45	54	205	3581	55 ⁺	40 ⁺	\$ 140,778	Supplies St. Catharines and 2 other points. Controlled by Dominion Gas Coy. Oper. by Doherty Organ.
Windsor Gas Coy.	\$ 400,000	55	88	2640	7500	20	30 ⁺ to 12 ⁺		\$ 425,000	Supplies Windsor and 8 other points. Controlled by Dominion Traction & Lighting Co.

497	"	Dereau	Dereau Gas & Electric Coy.	\$ 450,000	107	44	692	1479	33	35¢	30¢	\$ 181,894	Supplies Dereau and other points. Operated by Doherty
"	"	Cincinnati	Union Gas & Electric Coy.	\$ 1,591,000	727		15942	117,785		40¢ gross 35¢ net		\$ 4,408,053	Supplies Cincinnati etc. Operated by Doherty
"	"	Cleveland	East Ohio Gas Coy.	\$ 40,000,000				320,000		35¢ gross 35¢ net			Supplies Cleveland and 35 other points
498	"	Columbus	Columbus Gas & Fuel Coy.	\$ 19,332,000	325		6021	44,097	121	30¢	30¢ to 15¢	\$ 1,542,993	Supplies Columbus and 4 other points. Controlled by
"	"	"	Federal Gas & Fuel Coy.	\$ 1,071,000	139		3028	14,408	132	30¢	15¢	\$ 640,569	Supplies Columbus. Controlled by Ohio Cities
"	"	Connecticut	Northwestern Oil & Gas Coy.	\$ 500,000	58	22	1400	1200		36¢		\$ 385,000	Supplies Connecticut and 7 other points
499	"	Dayton	Dayton Gas Coy.	\$ 3,842,500			3509	32,000	100	34¢		\$ 882,500	Supplies Dayton. Controlled by Ohio Cities
500	"	Hamilton	Hamilton City Gas Works	\$ 274,500	68			7800		30¢	30¢	\$ 180,471	Supplies Hamilton. Municipal Plant.
502	"	Lima	Lima Natural Gas Coy.	\$ 750,000			748	10,626		70¢ to 45¢	50¢		Supplies Lima and two other points
505	"	Sandusky	Sandusky Gas & Electric Coy.	\$ 1,350,000	64		939	3650	150	50¢		\$ 282,864	Supplies Sandusky.
506	"	Springfield	Springfield Gas Coy.	\$ 1,010,000	125		1932	12,629		30¢		\$ 455,567	Supplies Springfield. Controlled by Ohio Cities
513	Oklahoma	Guthrie	Guthrie Gas & Fuel Improvement Co.	\$ 250,000				2400	17	35¢ gross 31¢ net	27¢ to 22¢	\$ 120,000	Supplies Guthrie
515	"	Muskogee	Muskogee Gas & Electric Coy.	\$ 395,600	117			5943	36	35¢ to 25¢		\$ 463,649	Supplies Muskogee. Controlled by Oklahoma Gas
515	"	Oklahoma City	Oklahoma Gas & Electric Coy.	\$ 9,158,500	201		7102	15780		31.5¢ to 22.5¢			Supplies Oklahoma City and 4 other points. Controlled
518	"	Tulsa	Oklahoma Natural Gas Coy.	\$ 11,530,000	1000	388		56,000		25¢	10¢ to 20¢		Supplies Tulsa and 44 other points. Includes 88 oil
523	Pennsylvania	Johnstown	Johnstown Fuel Supply Coy.	\$ 400,000				10,000	3	35¢		\$ 280,000	Supplies Johnstown and 8 other points.
530	"	Pittsburg	Ohio Fuel Supply Coy.	\$ 19,813,000	3056	1450	20,636	15343	308	30¢	30¢	\$ 7,413,243	Supplies Columbus and 70 other points. Includes
"	"	"	Patter Gas Coy.	\$ 2,300,000	504	537	2550	18098		30¢ to 40¢		\$ 6,284,95	Supplies Caudersport and 20 other points
"	"	"	The Peoples Natural Gas Coy.	\$ 11,000,000	1867	970	9382	19938	175	42¢ to 37¢		\$ 5,000,000	Supplies Adamsburg and 71 other points. Includes
531	"	"	Union Natural Gas Corp.	\$ 12,496,000	3042	1164		154520	1924			\$ 6,833,787	Supplies 70 points in Ohio and through other Coys 3
534	"	Uniontown	Layette County Gas Coy.	\$ 1,600,000	235	25	393	1522	22	33¢	25¢	\$ 538,467	Supplies Uniontown and 3 other points
"	"	Warren	Pennsylvania Gas Coy.	\$ 7,200,000		384		59,886		37¢ gross 33¢ net		\$ 1,631,209	Supplies Erie and 4 other points
536	Texas	Dallas	Dallas Gas Coy.	\$ 1,150,000	250		All	22,490	100	50¢		\$ 585,000	Supplies Dallas and Suburbs
536	"	Denison	North Texas Gas Coy.	\$ 850,000			3655	16,270	48	76¢ to 21¢		\$ 883,478	Supplies Byers and 16 other points
"	"	Fort Worth	Fort Worth Gas Coy.	\$ 1,600,000						45¢ to 21¢			Supplies Fort Worth and Suburbs.
539	Washington	Spokane	Spokane-Benton County Nat Gas Coy.	\$ 1,500,000						75¢	30¢		Supplies Spokane and other points
540	West Virginia	Charleston	United Fuel Gas Coy.	\$ 20,422,000	1448	798	57035	33537	184	30¢ to 16¢			Supplies Ashland and 48 other points and sells f
541	"	Davis	West Virginia & Maryland Gas Co.	\$ 2,150,000	400			14296		52¢ to 40¢			Supplies Davis and 7 other points
"	"	Elkins	West Virginia Central Gas Co.	\$ 2,100,000	250	150		5383		17¢ to 30¢			Supplies Buckhannon and 4 other points
"	"	Fairmont	Monongahela Valley Traction Co.	\$ 27,631,000	210	120	3000	5900	180	20¢	25¢	\$ 500,000	Supplies Fairmont and 5 other points
542	"	Grafton	Pittsburg & W. Virginia Gas Coy.	\$ 6,750,000	1263	1217	23219	10600	4021	30¢ to 22¢		\$ 4,067,83	Supplies Grafton and 5 other points.
C A N A D A													
547	Alberta	Calgary	Canadian Western Nat Gas Light	\$ 12,499,992	300	22	3882	11,047	47	32¢	16¢	\$ 1,044,160	Supplies Calgary and 10 other points
"	"	Medicine Hat	City of Medicine Hat Gas Dept.		51	15	2100	2,500	20	20¢	5¢	\$ 180,000	Supplies Medicine Hat Municipal Plant.
"	"	Redcliff	Canadian Western Power & Fuel Coy.		21	4	370	315	7	15¢ gross 13.5¢ net	2.5¢	\$ 35,000	Supplies Redcliff.
"	New Brunswick	Moncton	Moncton Tramways Electricity & Gas Co.	\$ 2,900,400	59		778	2,340	60	48¢	40¢	\$ 253,511	Supplies Moncton and Suburbs.
548	Ontario	Aylmer	Medina Natural Gas Coy.	\$ 339,400	20	24	58	1000		30¢ to 23.5¢		\$ 312,84	Supplies Aylmer and 2 other points
"	"	Brantford	The Brantford Gas Coy.	\$ 406,820	38		836	4329	86	42¢		\$ 140,147	Supplies Brantford. Controlled by Dominion Gas Coy
"	"	Chatham	Chatham Gas Coy.	\$ 334,400	18	60		2000	50	30¢ to 25¢	25¢	\$ 223,000	Supplies Chatham
549	"	Hamilton	Dominion Natural Gas Coy.	\$ 1,250,000	649	775	1967	29990	131	24¢ to 32¢	25¢ to 35¢	\$ 896,942	Supplies Hamilton and 24 other points + 5 Coy
549	"	"	United Gas & Fuel Coy.	\$ 2,050,000	232		1036	19136	60	45¢	45¢	\$ 418,181	Supplies Hamilton
"	"	Niagara Falls	The Provincial Nat Gas & Fuel Coy.	\$ 500,000		220	475	6000		42¢ gross 40¢ net		\$ 246,935	Supplies Bridgburg and 5 points
551	"	St. Catharines	The United Gas Coys Ltd.	\$ 300,000	82	45	54	208	3581	11	55¢	\$ 140,778	Supplies St. Catharines and 2 other points. Controlled by D
552	"	Windsor	Windsor Gas Coy.	\$ 400,000	55	88		2640	7500	20	30¢ to 12¢	\$ 425,000	Supplies Windsor and 3 other points. Controlled by D

Nº 47

No 47

No 47

WAA-1974-169-2100-002-016

WAA-1974

Calgary, Alberta,
3rd March, 1920

File 318.

Dear Sir:

I am enclosing you herewith under separate cover two blueprints regarding by-product ovens and their output graphs Nos. 48 and 49.

There is no doubt whatever that by obtaining stoves designed for the utilization of coke that such coke would wholly displace Anthracite Coal and further take the place largely of other coals particularly in those portions of the country where the transportation from the mine to the point of consumption is a considerable percentage of the total cost.

The stoves at present used to burn Anthracite will burn Coke equally as well if the draughts are properly arranged. One must bear in mind however that the cubical contents of one ton of Coke is practically double that of Anthracite. It has, probably in many cases, more heat units than Anthracite and under good firing a less percentage not converted into heat.

If the purchase of stoves or furnaces suitable for burning Anthracite was to cease at once a very large demand would occur for a substitute for same and in a very few years those now in use would become worthless. It therefore follows that the coking interests and the stove making interests should get together in the way of furnishing an article suitable for burning coke.

It is probably not a rash prophecy to state that there might within the next five years be one million tons of coke used in Canadian points West of Lake Superior furnished from Alberta or British Columbia Bituminous Coals.

The consumption of Anthracite in Manitoba and Saskatchewan in round numbers for 1917 was 500,000 tons. It therefore would seem probable that within that period (five years) the demand for coke would require 220 ovens of the kind discussed to supply same.

1,000,000 tons of Coke would furnish by-product oven gas to the amount of 15,202,000,000 cu.ft. or 9,501,250,000 cu.ft. of the quality of Calgary Natural Gas

The higher the grade of fuel Alberta can produce the further said fuels can be profitably shipped. Do not coke and briquettes best fill the bill in that regard?

According to the Annual Report of Canadian Western Natural Gas, Light, Heat and Power Company dated 30th September 1915, Calgary took for the year ending that date 3,535,025,000 cu.ft. of Natural Gas which is 37.2% of what 220 ovens would produce. 37.2% of 220 equals 81.84 No. of ovens required to produce the Gas Calgary consumed in said year.

Is not this a subject which should be thoroughly looked into?

I would take as a personal favor if you would make a rigid examination of the data presented and point out any errors or if too high an estimate has been made of the by-products or any matter which suggests itself.

It is of course to be distinctly understood that though I am an official of the Canadian Pacific Railway, that Corporation is not directly or indirectly connected with the matter presented in this.

Respectfully submitted,
WM. PEARCE.

.....
NOTE: The use of coal finely pulverized and dehydrated is rapidly being extended and in the near future will occupy a prominent position in the supply of heat. Such use is particularly advantageous in the matter of lignites and will probably supplant American Coals to a large extent in Manitoba, and while the results will prove of vast economic benefit it will not extend the field for the Alberta product. Such supplanting will be by means of the Saskatchewan Lignites.

will assume 18 hours for coking, 70% coke and 12 tons oven charge. On that basis each oven would turn out 4,600 tons Coke per annum; the average as per schedule is 4,491 say 4,500. 70% of 15,202 equals 10,604 equals No. cu. ft. of Gas per ton of Coal as per schedule. For purposes of this will adopt 10,000 cu. ft.

By-product oven gas at 600 B.T.U. and Natural Gas at 960 B.T.U.'s, then By-product oven gas is worth 62.5% of Natural Gas.

21,190 cu. ft. of gas at 960 B.T.U.'s equals 33,900 of By-product Gas at 600 B.T.U.'s equals one ton good steam coal.

In good practice in By-product ovens not more than 40% of the gas produced is required to heat the ovens. Where gas is of good value they can be heated by means of producer gas for one half the cost. So it follows that after providing for heating the ovens, 80% of the value of the gas is available to be credited as receipts therefrom.

If one ton coal produces 10,000 cu. ft. gas, 80% of that is 8,000. 8,000 is 23.6% of 33,900. In other words 23.6% of the cost of the coal is met with in the gas obtained in coking it.

Placing coal in Crow's Nest Pass at \$3.75 per ton for mine run. Freight \$2.00. In addition the cost of handling coal in a power house above that of gas to perform the same duty is \$.916 per ton. \$3.75 \$2.00 \$.916 equals \$6.666; 23.6% of that equals \$1.57.

At \$6.666 per ton, by-product oven gas is worth 19.6 cents Per M. Motor fuel 2 1/2 gallons per ton at 40¢ per gal. equals 1.00 15% Sulphate ammonia 27 lbs. per ton at 2 1/2¢ per lb. equals 67.5 10% 9 gallons per ton of tar at 2 1/2¢ equals 22.5 3.5%

Coal at \$5.75 per ton from which are derived:			
Gas	1.57	or	27.3% of cost
Motor Spirit	1.00	"	17.4% " "
ammonia Sulphate	67.5	"	11.7% " "
Tar	22.50	or	7.7% " "
	<u>3.470</u>		<u>60.1%</u>

Operating expenses per ton \$.685 say \$.70. Assuming 40 ovens at \$50,000 each; (They probably can be built for 80% of that amount) \$2,000,000, interest on cost 8%. Maintenance and deterioration 4%; total 1 1/2% per annum equals \$300,000. 40 ovens at 4,500 tons coke per annum, 70% coke, 6,430 tons coal for each or for the 40; 257,200 tons for the year or 93.3 cts. per ton for interest.

Operating expenses \$.70 Interest \$.933, together equals \$1.633.

\$3.47 - \$1.633 equals \$1.837 the net receipts over expenses on one ton coal.

Coal at \$5.75 leaving net cost of coal at \$3.913. Made into Coke at 70% equals \$5.59 say \$5.60 per ton of coke.

All that coke nets above that price would be profit.

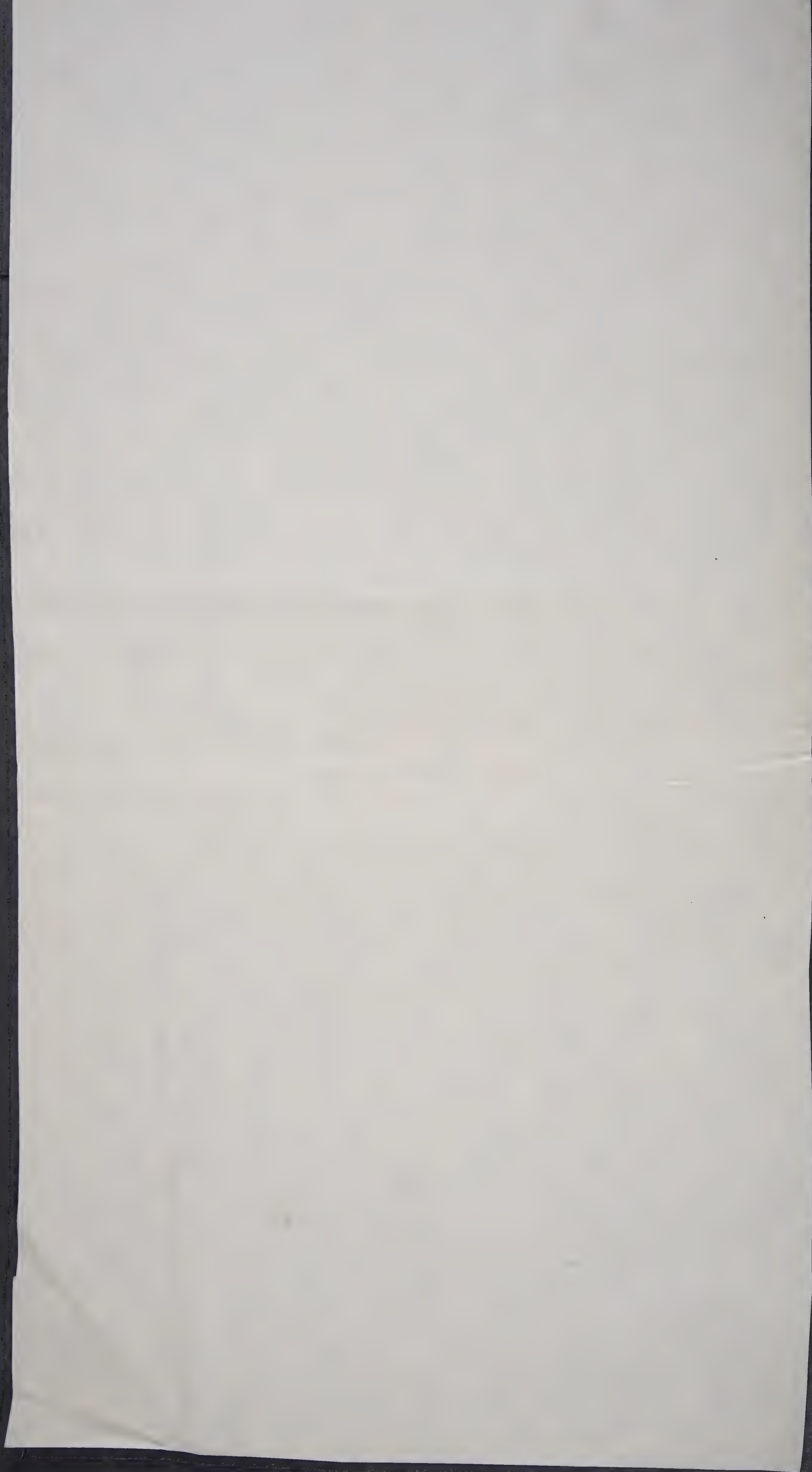
The tar contains a vast number of valuable ingredients; creosote, explosives, dyes and the residue would make binder for briquetting and probably if there was sufficient, an economical road binder. It is worth the value put on it as a fuel. For creosote, briquette binder and possibly road bitumin or binder, Alberta should furnish the very best possible market. As for the dyes and explosives it is possible that other points might be better located.

In addition if the location of the By-product oven plant is well adapted as a location for a briquetting plant, to combine the two would add very materially to profits of both.

If the By-product oven plant is on the route or approximately on it from the Source of Supply of Bituminous coals to where the coke is to be disposed that would seem to be a good location for it. If, in addition said location is en route or approximately on it from coals suitable for briquetting to where the briquettes are to be sold, such situation would appear to be the most suitable.

The amounts and values of Sulphate and Tar, also amount of Motor Spirit are taken from Mr. Lucas' Report Page 79 of the Final Report of the Fuel Comptroller of Canada, March 1919.





TO ACCOMPANY GRAPH OR SCHEDULE NO. 48

BY-PRODUCT OVENS.

From five tests made by the Officials of the Calgary Power Plant to determine the relative values of coal and natural gas as supplied in Calgary, it would appear that 16,780 cu.ft. of Gas is equal to one ton of coal and that was arrived at after rejecting two tests which gave results very much below the average. The coals used by the Power Plant were high grade lignites and for ordinary steam purposes, probably about as good as Bituminous, provided the boilers are adapted to burn it.

A very reliable party claims from thorough tests that one ton of good Bituminous Coal from Crow's Nest Pass utilized under the best conditions is equivalent to 25,600 cu.ft. of Calgary Natural Gas.

The mean of the two is 21,190. Have adopted 21,200 cu.ft. Calgary Natural Gas as equivalent to one ton of mine run of good Bituminous Coal in Crow's Nest Pass and think in ordinary practice it will be found such will closely be approximate.

The following calculations are based on coking coals from the said field.

Average No. of tons of coke per oven per annum as per schedule is 4,491 say 4,500.

Average No. of cu.ft. of gas per ton of coke 15,202 or 10,641 per ton of coal. To be conservative assume 10,000 cu.ft. of gas per ton of coal.

Average No. of hours coking 17.7

% of Coke 70.94

Average Charge 12.56 tons, after rejecting Central Indiana Gas Co. and Seattle Lighting Co.

Will assume 18 hours for coking, 70% coke and 12 tons oven charge. On that basis each oven would turn out 4,500 tons Coke per annum; the average as per schedule is 4,491 say 4,500. 70% of 15,202 equals 10,604 equals No. cu.ft. of Gas per ton of Coal as per schedule. For purposes of this will adopt 10,000 cu.ft.

By-product oven gas at 600 B.T.U. and Natural Gas at 960 B.T.U.'s, then By-product oven gas is worth 62.5% of Natural Gas.

21,190 cu.ft. of gas at 960 B.T.U.'s equals 33,900 of By-product Gas at 600 B.T.U.'s equals one ton good steam coal.

In good practice in by-product ovens not more than 40% of the gas produced is required to heat the ovens. Where gas is of good value they can be heated by means of producer gas for one half the cost. So it follows that after providing for heating the ovens, 80% of the value of the gas is available to be credited as receipts therefrom.

If one ton coal produces 10,000 cu.ft. gas, 80% of that is 8,000. 8,000 is 23.6% of 33,900. In other words 23.6% of the cost of the coal is met with in the gas obtained in coking it.

Placing coal in Crow's Nest Pass at \$3.75 per ton for mine run. Freight \$2.00. In addition the cost of handling coal in a power house above that of gas to perform the same duty is \$3.916 per ton. \$3.75 \$2.00 \$3.916 equals \$9.666; 23.6% of that equals \$2.28.

At \$9.666 per ton, by-product oven gas is worth 19.6 cents per M. Motor fuel 2 1/2 gallons per ton at 40¢ per gal. equals 1.00 15% Sulphate ammonia 87 lbs. per ton at 2¢ per lb. equals 67.5 10% 9 gallons per ton of tar at 2 1/2¢ equals 22.5 3.5%

Coal at \$5.78 per ton from which are derived:

Gas	1.57	or	27.3% of cost
Motor Spirit	1.00	"	17.4% "
Ammonia Sulphate	67.5	"	11.7% "
Tar	22.50	or	3.7% "
	3.470		60.1%

will assume 18 hours for coking, 70% cost and charge. On that basis each oven would turn out 4,600 tons coke per annum; the average as per schedule is 4,491 say 4,500. 70% of 15,202 equals 10,604 equals 10.6 cu.ft. of gas per ton of coal as per schedule. For purposes of this will adopt 10,000 cu.ft.

By-product oven gas at 600 B.T.U. and Natural Gas at 960 B.T.U.'s, then By-product oven gas is worth 62.5% of Natural Gas.

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In good practice in By-product ovens not more than 40% of the gas produced is required to heat the ovens. Where gas is of good value they can be heated by means of producer gas for one half the cost. So it follows that after providing for heating the ovens, 80% of the value of the gas is available to be credited as receipts therefrom.

If one ton coal produces 10,000 cu.ft. gas, 80% of that is 8,000. 8,000 is 23.6% of 33,900. In other words 23.6% of the cost of the coal is met with in the gas obtained in coking it.

Placing coal in Crow's Nest Pass at \$5.75 per ton for mine run. Freight \$2.00. In addition the cost of handling coal in a power house above that of gas to perform the same duty is \$.916 per ton. \$5.75 \$2.00 \$.916 equals \$8.666; 23.6% of that equals \$2.07.

at \$6.666 per ton, by-product oven gas is worth 19.6 cents Per M.
Motor fuel 2 1/2 gallons per ton at 40¢ per gal. equals 1.00 15%
Sulphate ammonia 27 lbs. per ton at 2¢ per lb. equals 67.5 10%
9 gallons per ton of tar at 2 1/2¢ equals 22.5 3.5%

Coal at \$5.75 per ton from which are derived:

Gas	1.57	or	27.3% of cost
Motor Spirit	1.00	"	17.4% "
Ammonia Sulphate	67.5	"	11.7% "
Tar	22.50	or	3.7% "
	3.470		60.1%

Operating expenses per ton \$.685 say \$.70.
Assuming 40 ovens at \$50,000 each; (They probably can be built for 60% of that amount) \$2,000,000. Interest on cost 8%.
Maintenance and deterioration 4%; total 12% per annum equals \$240,000.
40 ovens at 4,500 tons coke per annum, 70% coke, 5,430 tons coal for each or for the 40; 237,200 tons for the year or 92.3 cts. per ton for interest.

Operating expenses \$.70 Interest \$.933, together equals \$1.633.

\$3.47 - \$1.633 equals \$1.837 the net receipts over expenses on one ton coal.

Coal at \$5.75 leaving net cost of coal at \$3.913. Made into coke at 70% equals \$5.59 say \$5.60 per ton of coke.

All that coke nets above that price would be profit.

The tar contains a vast number of valuable ingredients; creosote, explosives, dyes and the resins would make binder for briquetting and probably if there was sufficient, an economical road binder. It is worth the value put on it as a fuel. For creosote, briquette binder and possibly road bitumin or binder, Alberta should furnish the very best possible market. As for the dyes and explosives it is possible that other points might be better located.

In addition if the location of the By-product oven plant is well adapted as a location for a briquetting plant, it would be a very desirable location for such a plant.

If the by-product oven plant is on the route or approximately on it from the source of supply of bituminous coals to where the coke is to be disposed that would seem to be a good location for it. If, in addition said location is en route or approximately on it from coals suitable for briquetting to where the briquettes are to be sold, such situation would appear to be the most suitable.

The amounts and values of Sulphate and Tar, also amount of Motor Spirit are taken from Mr. Lucas' Report Page 79 of the Final Report of the Fuel Comptroller of Canada, March 1913.

TO ACCOMPANY GRAPH OF SCHEDULE NO. 48

BY-PRODUCT OVENS.

From five tests made by the Officials of the Calgary Power Plant to determine the relative values of coal and natural gas as supplied in Calgary, it would appear that 16,780 cu.ft. of gas is equal to one ton of coal and that was arrived at after rejecting two tests which gave results very much below the average. The coals used by the Power Plant were high grade lignites and for ordinary steam purposes, probably about as good as bituminous, provided the boilers are adapted to burn it.

A very reliable party claims from thorough tests that one ton of good bituminous coal from Crow's Nest Pass utilized under the best conditions is equivalent to 25,600 cu.ft. of Calgary Natural Gas.

The mean of the two is 21,190. Have adopted 21,200 cu.ft. Calgary Natural Gas as equivalent to one ton of mine run of good Bituminous Coal in Crow's Nest Pass and think in ordinary practice it will be found such will closely be approximate.

The following calculations are based on coking coals from the said field.

Average No. of tons of coke per oven per annum as per schedule is 4,491 say 4,500.

Average No. of cu.ft. of gas per ton of coke 15,202 or 10,641 per ton of coal. To be conservative assume 10,000 cu.ft. of gas per ton of coal.

Average No. of hours coking 17.7

% of coke 70.94

Average Charge 18.56 tons, after rejecting Central Indiana Gas Co. and Seattle Lighting Co.

Will assume 16 hours for coking, 70% coke and 12 tons oven charge. On that basis each oven would turn out 4,600 tons Coke per annum; the average as per schedule is 4,491 say 4,500. 70% of 15,202 equals 10,641 equals 10,000 cu.ft. of Gas per ton of Coal as per schedule. For purposes of this will adopt 10,000 cu.ft.

By-product oven gas at 600 B.T.U. and Natural Gas at 960 B.T.U.'s, then By-product oven gas is worth 62.5% of Natural Gas.

21,190 cu.ft. of gas at 960 B.T.U.'s equals 33,900 of By-product Gas at 600 B.T.U.'s equals one ton good steam coal.

In good practice in By-product ovens not more than 40% of the gas produced is required to heat the ovens. Where gas is of good value they can be heated by means of producer gas for one half the cost. So it follows that after providing for heating the ovens, 60% of the value of the gas is available to be credited as receipts therefrom.

If one ton coal produces 10,000 cu.ft. gas, 60% of that is 6,000. 6,000 is 23.6% of 25,600. In other words 23.6% of the cost of the coal is met when the gas obtained in coking it.

Placing coal in Crow's Nest runs at \$6.75 per ton for mine run. Freight \$2.00. In addition the cost of handling coal in a power house above that of gas to perform the same duty is \$.916 per ton. \$6.75 \$2.00 \$.916 equals \$9.666; 23.6% of that equals \$2.28.

At \$9.666 per ton, by-product oven gas is worth 19.6 cents per M. Motor fuel 24 gallons per ton at 40¢ per gal. equals 1.00 16% Sulphate ammonia 87 lbs. per ton at 24¢ per lb. equals 67.5 10% Tar 9 gallons per ton of tar at 24¢ equals 22.5 3.5%

Coal at \$9.66 per ton from which are derived:

Gas	1.57	or	27.3%	of cost
Motor Spirit	1.00	"	17.4%	"
Ammonia Sulphate	67.5	"	11.7%	"
Tar	22.50	or	3.7%	"
	3.470		60.1%	

will assume 18 hours for coking, 70% coke and 12 tons oven charge. On that basis each oven would turn out 4,600 tons coke per annum; the average as per schedule is 4,491 say 4,500. 70% of 15,202 equals 10,604 equals No. cu. ft. of Gas per ton of Coal as per schedule. For purposes of this will adopt 10,000 cu. ft.

By-product oven gas at 600 B.T.U. and Natural Gas at 960 B.T.U.'s, then By-product oven gas is worth 22.5% of Natural Gas.

21,190 cu. ft. of gas at 960 B.T.U.'s equals 20,900 of By-product Gas at 600 B.T.U.'s equals one ton good steam coal.

In good practice in By-product ovens not more than 40% of the gas produced is required to heat the ovens. Where gas is of good value they can be heated by means of producer gas for one half the cost. So it follows that after providing for heating the ovens, 60% of the value of the gas is available to be credited as receipts therefrom.

If one ton coal produces 10,000 cu. ft. gas, 60% of that is 6,000. 6,000 is 23.6% of 25,900. In other words 23.6% of the cost of the coal is met with in the gas obtained in coking it.

Placing coal in Cross's Best Run at \$3.75 per ton for mine run. Freight \$2.00. In addition the cost of handling coal in a power house above that of gas to perform the same duty is \$.916 per ton. \$3.75 \$2.00 \$.916 equals \$6.666; 23.6% of that equals \$1.57.

at \$6.666 per ton, by-product oven gas is worth 19.6 cents per M. Motor fuel 2 1/2 gallons per ton at 40¢ per gal. equals 1.00 15% Sulphate ammonia 47 lbs. per ton at 2¢ per lb. equals 67.5 10% 8 gallons per ton of Tar at 2 1/2¢ equals 22.6 3.5%

Coal at \$5.75 per ton from which are derived:			
Gas	1.57	or	27.3% of cost
Motor Spirit	1.00	"	17.4% " "
Ammonia sulphate	67.5	"	11.7% " "
Tar	22.60	or	3.7% " "
	3.470		60.1%

Operating expenses per ton \$.685 say \$.70. Assuming 40 ovens at \$50,000 each; (They probably can be built for 80% of that amount) \$2,000,000. Interest on cost 8%. Maintenance and deterioration 4%; total 12% per annum equals \$240,000. 40 ovens at 4,500 tons coke per annum, 70% coke, 6,450 tons coal for each or for the 40; \$27,300 tons for the year or 93.5 cts. per ton for interest.

Operating expenses \$.70 Interest \$.923, together equals \$1.623.

\$3.47 - \$1.623 equals \$1.847 the net receipts over expenses on one ton coal.

Coal at \$5.75 leaving net cost of coal at \$3.913. Made into coke at 70% equals \$3.50 say \$3.60 per ton of coke.

All that coke sells above that price would be profit.

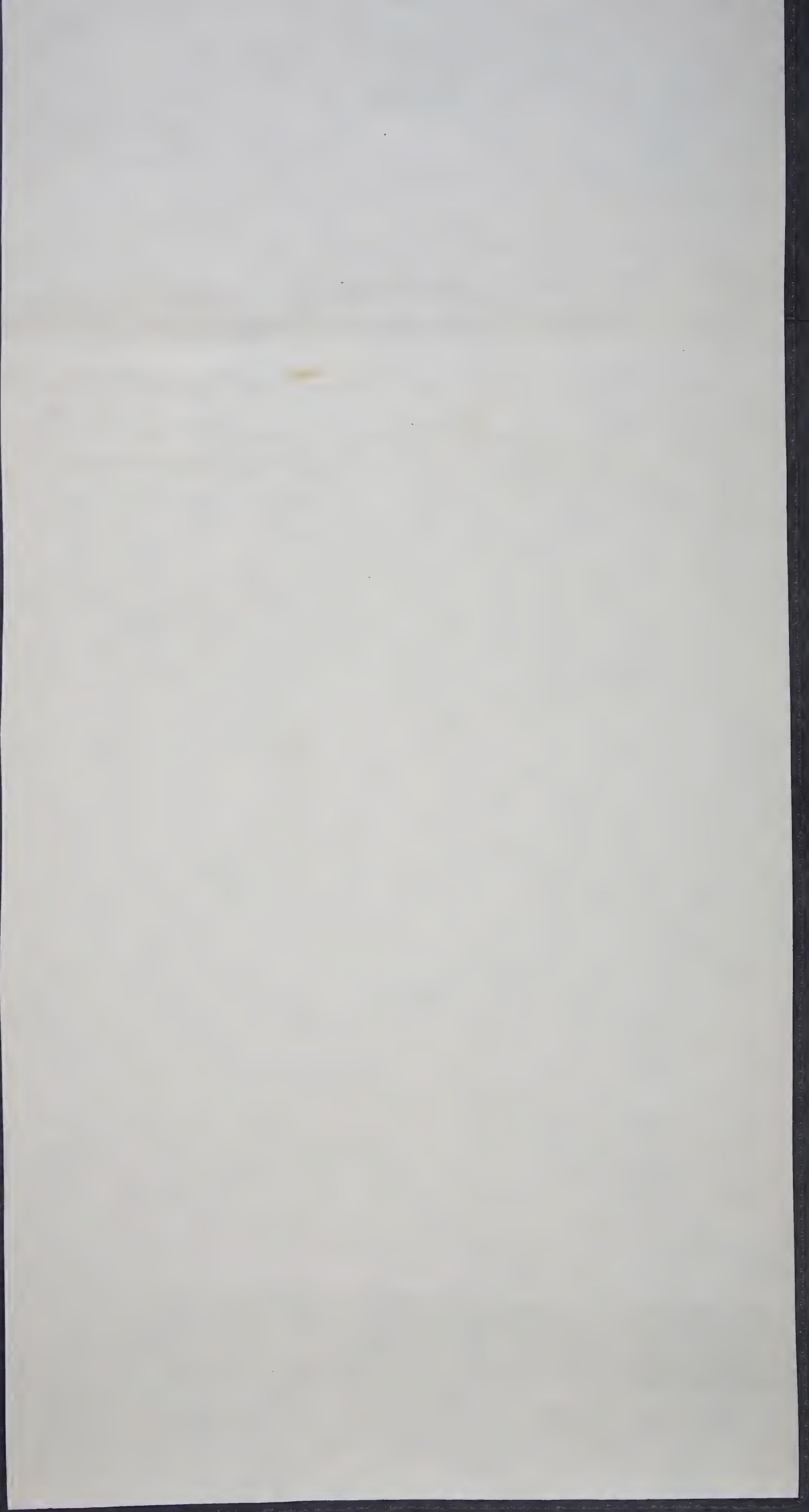
The tar contains a vast amount of valuable ingredients; creosote, explosives, dyes and the residue would make binder for briquetting and probably if there was sufficient, an economical road binder. It is worth the value put on it as a fuel. For creosote, briquette binder and possibly road bitumin or binder, Alberta should furnish the very best possible market. As for the dyes and explosives it is possible that other points might be better located.

In addition if the location of the By-product oven plant is well chosen as a location for briquetting, it would be a great advantage.

If the By-product oven plant is at the coal mine, it would be a great advantage to have it from the source of supply of bituminous coals to where the coke is to be disposed that would seem to be a good location for it. If, in addition said location is en route or approximately on it from coals suitable for briquetting to where the briquettes are to be sold, such situation would appear to be the most suitable.

The amounts and values of Sulphate and Tar, also amount of Motor Spirit are taken from Mr. Lucas' Report Page 72 of the Final Report of the Fuel Comptroller of Canada, March 1919.





TO ACCOMPANY GRAPH ON SCHEDULE NO. 48

BY-PRODUCT OVENS.

From five tests made by the Officials of the Calgary Power Plant to determine the relative values of coal and natural gas as supplied in Calgary, it would appear that 16,780 cu.ft. of Gas is equal to one ton of coal and that was arrived at after rejecting two tests which gave results very much below the average. The coals used by the Power Plant were high grade lignites and for ordinary steam purposes, probably about as good as bituminous, provided the boilers are adapted to burn it.

A very reliable party claims from thorough tests that one ton of good Bituminous Coal from Crow's Nest Pass utilised under the best conditions is equivalent to 25,600 cu.ft. of Calgary Natural Gas.

The mean of the two is 21,190. Have adopted 21,200 cu.ft. Calgary Natural Gas as equivalent to one ton of mine run of good Bituminous Coal in Crow's Nest Pass and think in ordinary practice it will be found such will closely be approximate.

The following calculations are based on coking coals from the said field.

Average No. of tons of coke per oven per annum as per schedule is 4,491 say 4,500.

Average No. of cu.ft. of gas per ton of coke 16,202 or 10,641 per ton of coal. To be conservative assume 10,000 cu.ft. of gas per ton of coal.

Average No. of hours coking 17.7

% of Coke 70.94

Average Charge 12.56 tons, after rejecting Central Indiana Gas Co. and Seattle Lighting Co.

Will assume 16 hours for coking, 70% coke and 12 tons oven charge. On that basis each oven would turn out 4,600 tons Coke per annum; the average as per schedule is 4,491 say 4,500. 70% of 16,202 equals 10,604 equals No. cu.ft. of Gas per ton of Coal as per schedule. For purposes of this will adopt 10,000 cu.ft.

By-product oven gas at 600 B.T.U. and Natural Gas at 960 B.T.U.'s, then By-product oven gas is worth 62.5% of Natural Gas.

21,190 cu.ft. of gas at 960 B.T.U.'s equals 33,900 of By-product Gas at 600 B.T.U.'s equals one ton good steam coal.

In good practice in By-product ovens not more than 40% of the gas produced is required to heat the ovens. Where gas is of good value they can be heated by means of producer gas for one half the cost. So it follows that after providing for heating the ovens, 80% of the value of the gas is available to be credited as receipts therefrom.

If one ton coal produces 10,000 cu.ft. gas, 80% of that is 8,000. 8,000 is 23.6% of 33,900. In other words 23.6% of the cost of the coal is met with in the gas obtained in coking it.

Placing coal in Crow's Nest Pass at \$5.75 per ton for mine run. Freight \$2.00. In addition the cost of handling coal in a power house above that of gas to perform the same duty is \$.916 per ton. \$5.75 \$2.00 \$.916 equals \$8.666; 23.6% of that equals \$2.05.

at \$8.666 per ton, by-product oven gas is worth 19.6 cents per M. Motor fuel 2 1/2 gallons per ton at 40¢ per gal. equals 1.00 15% Sulphate ammonia 87 lbs. per ton at 2¢ per lb. equals 67.¢ 10% 9 gallons per ton of tar at 2 1/2¢ equals 22.5 3.5%

Coal at \$5.75 per ton from which are derived:

Gas	1.57	or	27.5% of cost
Motor Spirit	1.00	"	17.4% " "
ammonia Sulphate	67.5	"	11.7% " "
Tar	22.50	or	2.7% " "
	3.470		60.1%

Will assume 18 hours for coking, 70% coke and 12 tons oven charge. On that basis each oven would turn out 4,600 tons Coke per annum; the average as per schedule is 4,491 say 4,500. 70% of 15,202 equals 10,604 equals No. cu. ft. of Gas per ton of Coal as per schedule. For purposes of this will adopt 10,000 cu. ft.

By-product oven gas at 600 B.T.U. and Natural Gas at 960 B.T.U.'s, then By-product oven gas is worth 62.5% of Natural Gas.

21,190 cu. ft. of gas at 960 B.T.U.'s equals 20,900 of By-product Gas at 600 B.T.U.'s equals one ton good steam coal.

In good practice in By-product ovens not more than 40% of the gas produced is required to heat the ovens. Where gas is of good value they can be heated by means of producer gas for one half the cost. So it follows that after providing for heating the ovens, 80% of the value of the gas is available to be credited as receipts therefrom.

If one ton coal produces 10,000 cu. ft. gas, 80% of that is 8,000. 8,000 is 23.6% of 33,900. In other words 23.6% of the cost of the coal is met with in the gas obtained in coking it.

Pricing coal in Crows East Pass at \$5.75 per ton for mine run. Freight \$2.00. In addition the cost of handling coal in a power house above that of gas to perform the same duty is \$.916 per ton. \$5.75 \$2.00 \$.916 equals \$6.666; 23.6% of that equals \$1.57.

At \$6.666 per ton, by-product oven gas is worth 19.6 cents per 1. Motor fuel 31 gallons per ton at 40¢ per gal. equals 1.00 16% Sulphate ammonia 27 lbs. per ton at 25¢ per lb. equals 67.5 10% 9 gallons per ton of tar at 25¢ equals 22.5 3.5%

Coal at \$5.75 per ton from which are derived:			
Gas	1.57	or	27.3% of cost
Motor Spirit	1.00	"	17.4% " "
Ammonia Sulphate	67.5	"	11.7% " "
Tar	22.50	or	3.7% " "
	3.470		60.1%

Operating expenses per ton \$.585 say \$.70. Assuming 40 ovens at \$50,000 each; (They probably can be built for 80% of that amount) \$2,000,000. Interest on cost 8%. Maintenance and deterioration 4%; total 12% per annum equals \$240,000. 40 ovens at 4,600 tons coke per annum, 70% coke, 6,430 tons coal for each or for the 40; 257,200 tons for the year or 95.5 cts. per ton for interest.

Operating expenses \$.70 Interest \$.935, together equals \$1.635.

\$3.47 - \$1.635 equals \$1.837 the net receipts over expenses on one ton coal.

Coal at \$5.75 leaving net cost of coal at \$3.913. Made into coke at 70% equals \$5.59 say \$5.60 per ton of coke.

All that coke nets above that price would be profit.

The tar contains a vast amount of valuable ingredients; creosote, explosives, dyes and the residue would make binder for briquetting and probably if there was sufficient, an economical road binder. It is worth the value put on it as a fuel. For creosote, briquette binder and possibly road bitumin or binder, alberta should furnish the very best possible market. As for the dyes and explosives it is possible that other points might be better located.

In addition if the location of the By-product oven plant is well adapted as a location for a briquetting plant, the situation would be very desirable for the coke.

If the by-product oven plant is on the route or approximately on it from the source of supply of bituminous coals to where the coke is to be disposed that would seem to be a good location for it. If, in addition said location is en route or approximately on it from coals suitable for briquetting to where the briquettes are to be sold, such situation would appear to be the most suitable.

The amounts and values of Sulphate and Tar, also amount of Motor Spirit are taken from Mr. Lucas' Report Page 79 of the Final Report of the Fuel Comptroller of Canada, March 1919.



TO ACCOMPANY GRAPH OR SCHEDULE NO. 43

BY-PRODUCT OVENS.

From five tests made by the Officials of the Calgary Power Plant to determine the relative values of coal and natural gas as supplied in Calgary, it would appear that 16,780 cu.ft. of Gas is equal to one ton of coal and that was arrived at after rejecting two tests which gave results very much below the average. The coals used by the Power Plant were high grade lignites and for ordinary steam purposes, probably about as good as Bituminous, provided the boilers are adapted to burn it.

A very reliable party claims from thorough tests that one ton of good Bituminous Coal from Crow's Nest Pass utilized under the best conditions is equivalent to 26,500 cu.ft. of Calgary Natural Gas.

The mean of the two is 21,190. Have adopted 21,200 cu.ft. Calgary Natural Gas as equivalent to one ton of mine run of good Bituminous Coal in Crow's Nest Pass and think in ordinary practice it will be found such will closely be approximate.

The following calculations are based on coking coals from the said field.

Average No. of tons of coke per oven per annum as per schedule is 4,491 say 4,500.

Average No. of cu.ft. of gas per ton of coke 15,202 or 10,641 per ton of coal. To be conservative assume 10,000 cu.ft. of gas per ton of coal.

Average No. of hours coking 17.7

% of Coke 70.94

Average Charge 12.55 tons, after rejecting Central Indiana Gas Co. and Seattle Lighting Co.

Will assume 16 hours for coking, 70% coke and 12 tons oven charge. On that basis each oven would turn out 4,600 tons Coke per annum; the average as per schedule is 4,491 say 4,500. 70% of 15,202 equals 10,641 equals No. cu.ft. of Gas per ton of Coal as per schedule. For purposes of this will adopt 10,000 cu.ft.

By-product oven gas at 600 B.T.U. and Natural Gas at 960 B.T.U.'s, then By-product oven gas is worth 62.5% of Natural Gas.

21,190 cu.ft. of gas at 960 B.T.U.'s equals 33,900 of By-product Gas at 600 B.T.U.'s equals one ton good steam coal.

In good practice in By-product ovens not more than 40% of the gas produced is required to heat the ovens. Where gas is of good value they can be heated by means of producer gas for one half the cost. So it follows that after providing for heating the ovens, 60% of the value of the gas is available to be credited as receipts therefrom.

If one ton coal produces 10,000 cu.ft. gas, 60% of that is 6,000. 6,000 is 23.6% of 33,900. In other words 23.6% of the cost of the coal is met with in the gas obtained in coking it.

Placing coal in Crow's Nest Pass at \$3.75 per ton for mine run. Freight \$2.00. In addition the cost of handling coal in a power house above that of gas to perform the same duty is \$.916 per ton. \$3.75 \$2.00 \$.916 equals \$6.666; 23.6% of that equals \$1.57.

at \$6.666 per ton, by-product oven gas is worth 19.5 cents per m.
Motor fuel $2\frac{1}{2}$ gallons per ton at 40¢ per gal. equals 1.00 15%
Sulphate Ammonia 27 lbs. per ton at 2¢ per lb. equals 57.5 10%
9 gallons per ton of tar at 2½¢ equals 22.5 3.5%

Coal at \$5.75 per ton from which are derived:

Gas	1.57	or	27.3%	of cost
Motor Spirit	1.00	"	17.4%	" "
Ammonia Sulphate	57.5	"	11.7%	" "
Tar	22.50	or	3.7%	" "
	8.470		60.1%	

Will assume 18 hours for coking, 70% coke and 12 tons oven charge. On that basis each oven would turn out 4,600 tons Coke per annum; the average as per schedule is 4,491 say 4,500. 70% of 15,202 equals 10,504 equals No. cu. ft. of Gas per ton of Coal as per schedule. For purposes of this will adopt 10,000 cu. ft.

By-product oven gas at 600 B.T.U. and Natural Gas at 960 B.T.U.'s, then By-product oven gas is worth 62.5% of Natural Gas.

21,190 cu. ft. of gas at 960 B.T.U.'s equals 33,900 of By-product Gas at 600 B.T.U.'s equals one ton good steam coal.

In good practice in By-product ovens not more than 40% of the gas produced is required to heat the ovens. Where gas is of good value they can be heated by means of producer gas for one half the cost. So it follows that after providing for heating the ovens, 80% of the value of the gas is available to be credited as receipts therefrom.

If one ton coal produces 10,000 cu. ft. gas, 80% of that is 8,000. 8,000 is 23.6% of 33,900. In other words 23.6% of the cost of the coal is met with in the gas obtained in coking it.

Placing coal in Crow's Nest Pass at \$3.75 per ton for mine run. Freight \$2.00. In addition the cost of handling coal in a power house above that of gas to perform the same duty is \$.916 per ton. \$3.75 \$2.00 \$.916 equals \$6.666; 23.6% of that equals \$1.57.

at \$6.666 per ton, by-product oven gas is worth 19.6 cents per M.
 Motor fuel $2\frac{1}{2}$ gallons per ton at 40¢ per gal. equals 1.00 15%
 Sulphate ammonia 27 lbs. per ton at 25¢ per lb. equals 67.5 10%
 9 gallons per ton of tar at 25¢ equals 22.5 3.5%

Coal at \$5.75 per ton from which are derived:

Gas	1.57	or	27.3% of cost
Motor Spirit	1.00	"	17.4% " "
ammonia Sulphate	67.5	"	11.7% " "
Tar	22.50	or	3.7% " "
	3.470		60.1%

Operating expenses per ton \$.685 say \$.70.

Assuming 40 ovens at \$50,000 each: (They probably can be built for 80% of that amount) \$2,000,000, Interest on cost 8%. Maintenance and deterioration 4%; total 12% per annum equals \$240,000. 40 ovens at 4,600 tons coke per annum, 70% coke, 6,430 tons coal for each or for the 40; 257,200 tons for the year or 93.3 cts. per ton for interest.

Operating expenses \$.70 Interest \$.933, together equals \$1.633.

\$3.47 - \$1.633 equals \$1.837 the net receipts over expenses on one ton coal.

Coal at \$5.75 leaving net cost of coal at \$3.913. Made into Coke at 70% equals \$5.59 say \$5.60 per ton of coke.

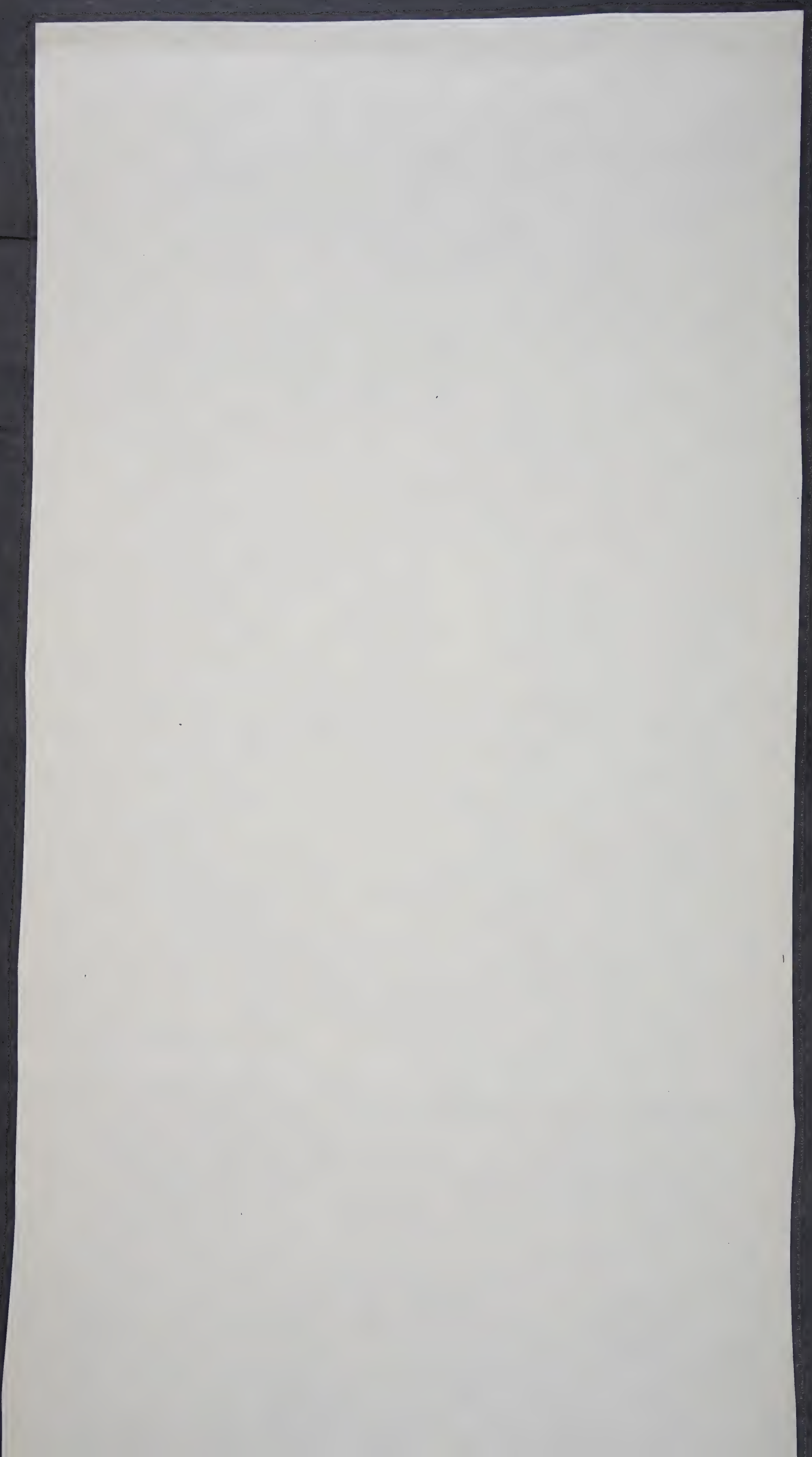
All that coke nets above that price would be profit.

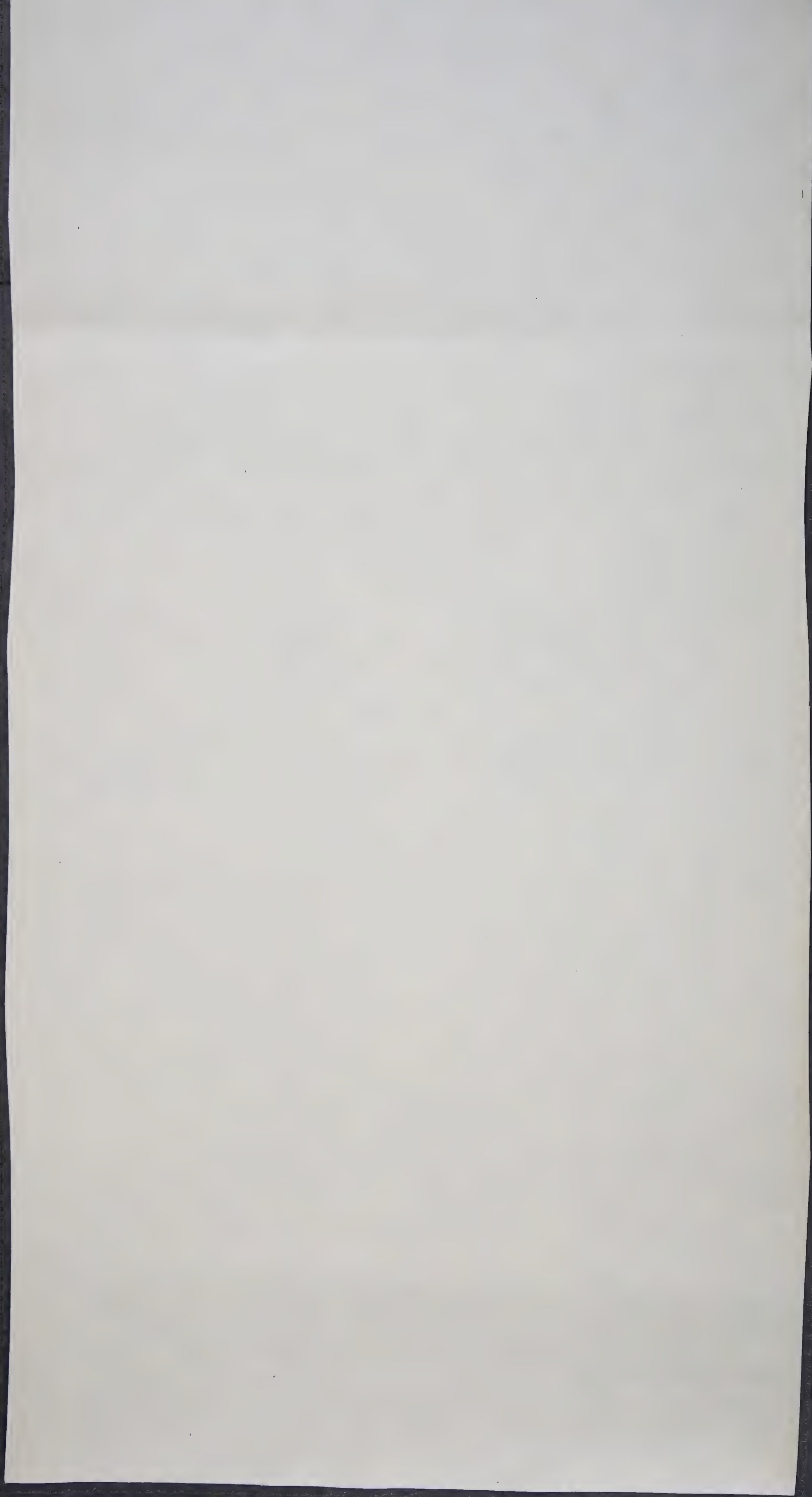
The tar contains a vast number of valuable ingredients; creosote, explosives, dyes and the residue would make binder for briquetting and probably if there was sufficient, an economical road binder. It is worth the value put on it as a fuel. For creosote, briquette binder and possibly road bitumin or binder, Alberta should furnish the very best possible market. As for the dyes and explosives it is possible that other points might be better located.

In addition if the location of the By-product oven plant is well adapted as a location for a briquetting plant, to combine the two would add very materially to profits of both.

If the by-product oven plant is on the route or approximately on it from the source of supply of Bituminous coals to where the coke is to be disposed that would seem to be a good location for it. If, in addition said location is in route or approximately on it from coals suitable for briquetting to where the briquettes are to be sold, such situation would appear to be the most suitable.

The amounts and values of Sulphate and Tar, also amount of Motor Spirit are taken from Mr. Lucas' Report Page 79 of the Final Report of the Fuel Comptroller of Canada, March 1919.





TO ACCOMPANY CHARTER OF SCHEDULE NO. 44
BY-PRODUCT OVENS.

From five tests made by the Officials of the Calgary Power Plant to determine the relative values of coal and natural gas as supplied in Calgary, it would appear that 16,780 cu.ft. of gas is equal to one ton of coal and that was arrived at after rejecting two tests which gave results very much below the average. The coals used by the Power Plant were high grade lignites and for ordinary steam purposes, probably about as good as bituminous, provided the boilers are adapted to burn it.

A very reliable party claims from thorough tests that one ton of good bituminous coal from Crow's Nest Pass utilized under the best conditions is equivalent to 25,600 cu.ft. of Calgary Natural Gas.

The mean of the two is 21,190. Have adopted 21,300 cu.ft. Calgary Natural Gas as equivalent to one ton of mine run of good bituminous coal in Crow's Nest Pass and think in ordinary conditions it will be found such will closely be approximate.

The following calculations are based on coking coals from the said five.

Average No. of tons of coke per oven per annum as per schedule is 4,491 say 4,500.

Average No. of cu.ft. of gas per ton of coke 15,202 or 10,000 per ton of coal. To be conservative assume 10,000 cu.ft. of gas per ton of coal.

Average No. of hours coking 17.7

% of Coke

70.94

Average Charge

12.56 tons.

Indiana Gas Co. and Seattle Lighting Co.

Will assume 16 hours for coking, 70% coke and 12 tons oven charge. On that basis each oven would turn out 4,500 tons coke per annum; the average as per schedule is 4,491 say 4,500. 70% of 15,202 equals 10,604 equals 10,000 cu.ft. of Gas per ton of Coal as per schedule. For purposes of this will adopt 10,000 cu.ft.

By-product oven gas at 600 B.T.U. and Natural Gas at 950 B.T.U.'s, then By-product oven gas is worth 62.5% of Natural Gas.

21,300 cu.ft. of gas at 950 B.T.U.'s equals 33,900 of By-product Gas at 600 B.T.U.'s equals one ton good steam coal.

In good practice in By-product ovens not more than 40% of the gas produced is required to heat the ovens. Where gas is of good value they can be heated by means of producer gas for one half the cost. So it follows that after providing for heating the ovens, 60% of the value of the gas is available to be credited as receipts therefrom.

If one ton coal produces 10,000 cu.ft. gas, 60% of that is 6,000. 6,000 is 23.6% of 25,600. In other words 23.6% of the cost of the coal is met with in the gas obtained in coking it.

Placing coal in Crow's Nest Pass at \$3.75 per ton for mine run. Freight \$2.00. In addition the cost of handling coal in a power house above that of gas to perform the same duty is \$.916 per ton. \$3.75 \$2.00 \$.916 equals \$6.666; 23.6% of that equals \$1.57.

at \$6.666 per ton, by-product oven gas is worth 19.6 cents Per M. Motor fuel 2 1/2 gallons per ton at 40¢ per gal. equals 1.00 15% Sulphate Ammonia 27 lbs. per ton at 25¢ per lb. equals 67.5 10% 9 gallons per ton of tar at 2 1/2¢ equals 22.5 3.5%

Coal at \$5.75 per ton from which are derived:

Gas	1.57	or	27.3%	of cost
Motor Spirit	1.00	"	17.4%	" "
Ammonia Sulphate	67.5	"	11.7%	" "
Tar	22.50	or	3.7%	" "
	3.470		60.1%	

On that basis each oven would turn out 4,600 tons coke per annum; the average as per schedule is 4,491 say 4,500. 70% of 10,802 equals 10,604 equals 10,000 cu.ft. of Gas per ton of Coal as per schedule. For purposes of this will adopt 10,000 cu.ft.

By-product oven gas at 600 B.T.U. and Natural Gas at 960 B.T.U.'s, then By-product oven gas is worth 62.5% of Natural Gas.

21,130 cu.ft. of gas at 960 B.T.U.'s equals 33,900 of By-product Gas at 600 B.T.U.'s equals one ton good steam coal.

In good practice in By-product ovens not more than 40% of the gas produced is required to heat the ovens. Where gas is of good value they can be heated by means of producer gas for one half the cost. So it follows that after providing for heating the ovens, 60% of the value of the gas is available to be credited as receipts therefrom.

If one ton coal produces 10,000 cu.ft. gas, 80% of that is 8,000. 8,000 is 23.6% of 33,900. In other words 23.6% of the cost of the coal is met with in the gas obtained in coking it.

Placing coal in Crow's Nest Pass at \$3.75 per ton for mine run. Freight \$2.00. In addition the cost of handling coal in a power house above that of gas to perform the same duty is \$.916 per ton. \$3.75 \$2.00 \$.916 equals \$6.666; 23.6% of that equals \$1.57.

At \$6.666 per ton, by-product oven gas is worth 19.6 cents Per M. Motor Fuel 2 1/2 gallons per ton at 40¢ per gal. equals 1.00 15% Sulphate ammonia 27 lbs. per ton at 2 1/2¢ per lb. equals 67.5 10% 9 gallons per ton of tar at 2 1/2¢ equals 22.5 3.5%

Coal at \$5.75 per ton from which are derived:		
Gas	1.57 or	27.3% of cost
Motor Spirit	1.00 "	17.4% "
Ammonia Sulphate	67.5 "	11.7% "
Tar	22.50 or	3.7% "
	<u>3.470</u>	<u>60.1%</u>

Operating expenses per ton \$.685 say \$.70. Assuming 40 ovens at \$50,000 each: (They probably can be built for 50% of that amount) \$2,000,000. Interest on cost 8%. Maintenance and deterioration 4%; total 12% per annum equals \$240,000. 40 ovens at 4,500 tons coke per annum, 70% coke, 6,430 tons coal for each or for the 40; 257,200 tons for the year or 93.3 cts. per ton for interest.

Operating expenses \$.70 Interest \$.933, together equals \$1.633.

\$3.47 - \$1.633 equals \$1.837 the net receipts over expenses on one ton coal.

Coal at \$5.75 leaving net cost of coal at \$3.913. Made into coke at 70% equals \$5.59 say \$5.60 per ton of coke.

All that coke nets above that price would be profit.

The tar contains a vast number of valuable ingredients; creosote, explosives, dyes and the residue would make binder for briquetting and probably if there was sufficient, an economical road binder. It is worth the value put on it as a fuel. For creosote, briquette binder and possibly road bitumin or binder, Alberta should furnish the very best possible market. As for the dyes and explosives it is possible that other points might be better located.

In addition if the location of the By-product oven plant is well adapted as a location for a briquetting plant, to combine the two would add very materially to profits of both.

If the by-product oven plant is on the route or approximately on it from the Source of Supply of Bituminous coals to where the coke is to be disposed that would seem to be a good location for it. If, in addition said location is en route or approximately on it from coals suitable for briquetting to where the briquettes are to be sold, such situation would appear to be the most suitable.

The amounts and values of Sulphate and Tar, also amount of Motor Spirit are taken from Mr. Lucas' Report Page 79 of the Final Report of the Fuel Comptroller of Canada, March 1919.



TO ACCOMPANY GRAPH OR SCHEDULE NO. 43

BY-PRODUCT OVENS.

From five tests made by the Officials of the Calgary Power Plant to determine the relative values of coal and natural gas as supplied in Calgary, it would appear that 16,780 cu.ft. of Gas is equal to one ton of coal and that was arrived at after rejecting two tests which gave results very much below the average. The coals used by the Power Plant were high grade lignites and for ordinary steam purposes, probably about as good as Bituminous, provided the boilers are adapted to burn it.

A very reliable party claims from thorough tests that one ton of good Bituminous Coal from Crow's Nest Pass utilized under the best conditions is equivalent to 26,800 cu.ft. of Calgary Natural Gas.

The mean of the two is 21,190. I have adopted 21,200 cu.ft. Calgary Natural Gas as equivalent to one ton of mine run of good Bituminous Coal in Crow's Nest Pass and think in ordinary practice it will be found such will closely be approximate.

The following calculations are based on coking coals from the said field.

Average No. of tons of coke per oven per annum as per schedule is 4,491 say 4,500.

Average No. of cu.ft. of gas per ton of coke 15,202 or 10,641 per ton of coal. To be conservative assume 10,000 cu.ft. of gas per ton of coal.

Average No. of hours coking 17.7

% of Coke 70.94

Average Charge 12.56 tons, after rejecting Central Indiana Gas Co. and Seattle Lighting Co.

Will assume 18 hours for coking, 70% coke and 12 tons oven charge. On that basis each oven would turn out 4,600 tons Coke per annum; the average as per schedule is 4,491 say 4,500. 70% of 15,202 equals 10,604 equals No. cu.ft. of Gas per ton of Coal as per schedule. For purposes of this will adopt 10,000 cu.ft.

By-product oven gas at 600 B.T.U. and Natural Gas at 960 B.T.U.'s, then By-product oven gas is worth 62.5% of Natural Gas.

21,190 cu.ft. of gas at 960 B.T.U.'s equals 33,900 of By-product Gas at 600 B.T.U.'s equals one ton good steam coal.

In good practice in By-product ovens not more than 40% of the gas produced is required to heat the ovens. Where gas is of good value they can be heated by means of producer gas for one half the cost. So it follows that after providing for heating the ovens, 80% of the value of the gas is available to be credited as receipts therefrom.

If one ton coal produces 10,000 cu.ft. gas, 80% of that is 8,000. 8,000 is 23.6% of 33,900. In other words 23.6% of the cost of the coal is met with in the gas obtained in coking it.

Placing coal in Crow's Nest Pass at \$3.75 per ton for mine run. Freight \$2.00. In addition the cost of handling coal in a power house above that of gas to perform the same duty is \$.916 per ton. \$3.75 \$2.00 \$.916 equals \$6.666; 23.6% of that equals \$1.57.

at \$6.666 per ton, by-product oven gas is worth 19.6 cents Per M. Motor fuel $2\frac{1}{2}$ gallons per ton at 40¢ per gal. equals 1.00 15% Sulphate ammonia 27 lbs. per ton at 2¢ per lb. equals 67.5 10% 9 gallons per ton of tar at 2¢ equals 22.5 3.5%

Coal at \$5.75 per ton from which are derived:

Gas	1.57	or	27.3%	of cost
Motor Spirit	1.00	"	17.4%	" "
Ammonia Sulphate	67.5	"	11.7%	" "
Tar	22.50	or	3.7%	" "
	3.470		60.1%	

Will assume 18 hours for coking. 70% coke and 12 tons oven charge. On that basis each oven would turn out 4,600 tons Coke per annum; the average as per schedule is 4,491 say 4,500. 70% of 16,202 equals 10,604 equals 30 cu.ft. of Gas per ton of Coal as per schedule. For purposes of this will adopt 10,000 cu.ft.

By-product oven gas at 600 B.T.U. and Natural Gas at 960 B.T.U.'s, then By-product oven gas is worth 52.5% of Natural Gas.

21,190 cu.ft. of gas at 960 B.T.U.'s equals 33,900 of By-product Gas at 600 B.T.U.'s equals one ton good steam coal.

In good practice in By-product ovens not more than 40% of the gas produced is required to heat the ovens. Where gas is of good value they can be heated by means of producer gas for one half the cost. So it follows that after providing for heating the ovens, 80% of the value of the gas is available to be credited as receipts therefrom.

If one ton coal produces 10,000 cu.ft. gas, 80% of that is 8,000. 8,000 is 23.6% of 33,900. In other words 23.6% of the cost of the coal is met with in the gas obtained in coking it.

Placing coal in Crow's Nest Pass at \$3.75 per ton for mine run. Freight \$2.00. In addition the cost of handling coal in a power house above that of gas to perform the same duty is \$.916 per ton. \$3.75 \$2.00 \$.916 equals \$6.666; 23.6% of that equals \$1.57.

at \$6.666 per ton, by-product oven gas is worth 19.6 cents Per M.
Motor fuel $2\frac{1}{2}$ gallons per ton at 40¢ per gal. equals 1.00 15%
Sulphate Ammonia 27 lbs. per ton at 2¢ per lb. equals 67.5 10%
9 gallons per ton of tar at 2½¢ equals 22.5 3.5%

Coal at \$5.75 per ton from which are derived:			
Gas	1.57	or	27.3% of cost
Motor Spirit	1.00	"	17.4% " "
Ammonia Sulphate	67.5	"	11.7% " "
Tar	22.50	or	3.7% " "
	3.470		60.1%

Operating expenses per ton \$.685 say \$.70.
Assuming 40 ovens at \$50,000 each; (They probably can be built for 50% of that amount) \$2,000,000, Interest on cost 8%.
Maintenance and deterioration 4%; total 12% per annum equals \$240,000.
40 ovens at 4,500 tons coke per annum, 70% coke, 6,430 tons coal for each or for the 40; 257,200 tons for the year or 92.3 cts. per ton for interest.

Operating expenses \$.70 Interest \$.933, together equals \$1.633.

\$3.47 - \$1.633 equals \$1.837 the net receipts over expenses on one ton coal.

Coal at \$5.75 leaving net cost of coal at \$3.913. Made into Coke at 70% equals \$5.59 say \$6.60 per ton of coke.

All that coke nets above that price would be profit.

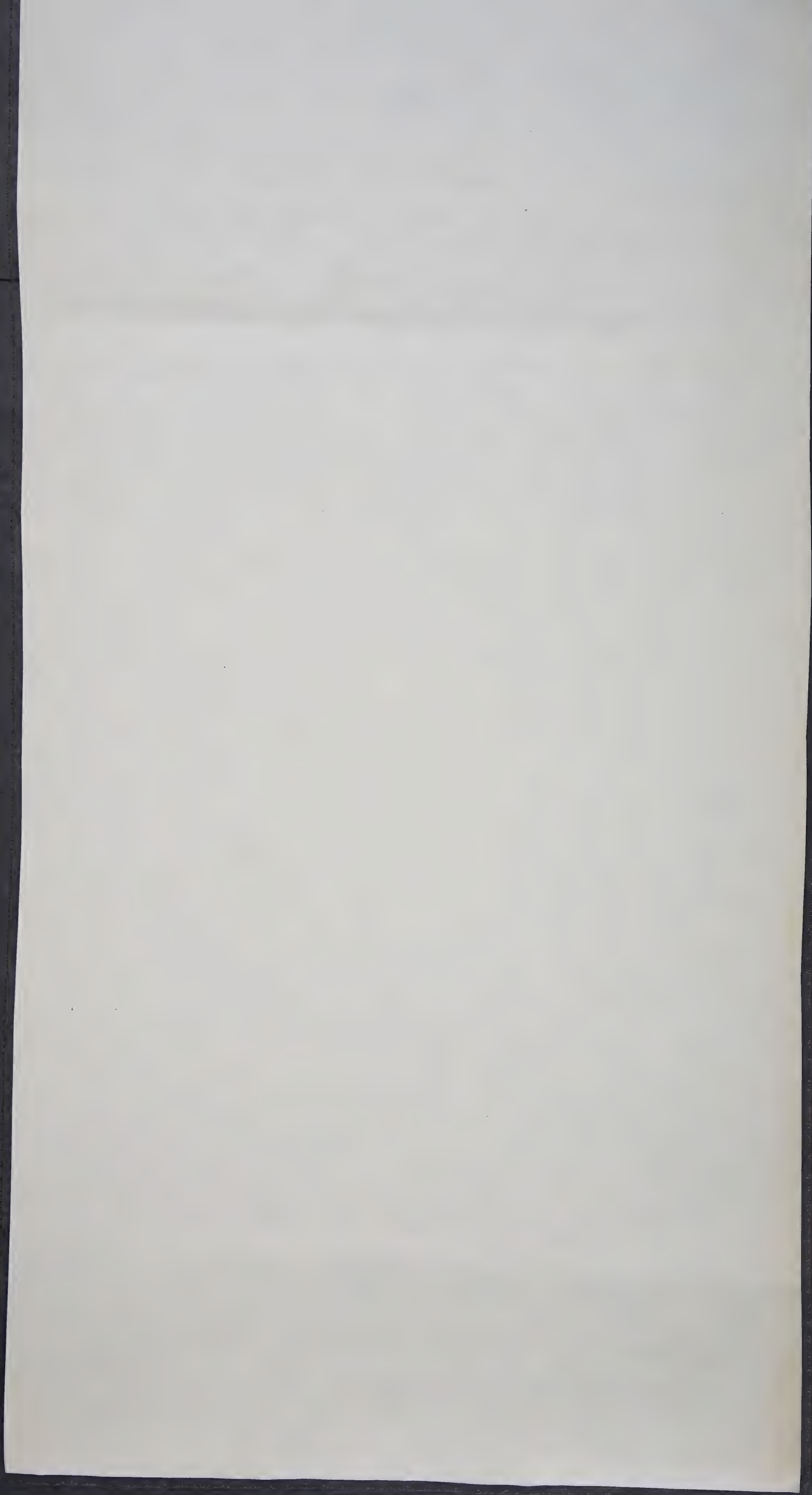
The tar contains a vast number of valuable ingredients; creosote, explosives, dyes and the residue would make binder for briquetting and probably if there was sufficient, an economical road binder. It is worth the value put on it as a fuel. For creosote, briquette binder and possibly road bitumin or binder, Alberta should furnish the very best possible market. As for the dyes and explosives it is possible that other points might be better located.

In addition if the location of the By-product oven plant is well adapted as a location for a briquetting plant, to combine the two would add very materially to profits of both.

By-product oven plant is on the river or approximately on it from the source of supply of bituminous coals to where the coke is to be disposed that would seem to be a good location for it. If, in addition said location is en route or approximately on it from coal suitable for briquetting to where the briquettes are to be sold, such situation would appear to be the most suitable.

The amounts and values of Sulphate and Tar, also amount of Motor Spirit are taken from Mr. Lucas' Report Page 79 of the Final Report of the Fuel Comptrollox of Canada, March 1919.





BY-PRODUCT OVEN.

From tests made by the Officials of the Calgary Power Plant to determine the relative values of coal and natural gas as supplied in Calgary, it would appear that 16,780 cu.ft. of gas is equal to one ton of coal and that was arrived at after rejecting the tests which gave results very much below the average. The coals used by the Power Plant were high grade lignites and for ordinary steam purposes, probably about as good as bituminous, provided the boilers are adapted to burn it.

A very reliable party claims from thorough tests that one ton of good bituminous coal from Crow's Nest Pass obtained under the best conditions is equivalent to 25,600 cu.ft. of Calgary natural gas.

The mean of the two is 21,190. Have adopted 21,200 cu.ft. Calgary Natural Gas as equivalent to one ton of mine run of good bituminous coal in Crow's Nest Pass and think in ordinary practice it will be found such will closely be approximate.

The following calculations are based on coking coals from the said field.

Average 60. of tons of coke per oven per annum as per schedule is 4,800 say 4,800.

Average 30. of cu.ft. of gas per ton of coke 15,202 or 27,641 per ton of coal. To be conservative assume 10,000 cu.ft. of gas per ton of coal.

Average 30. of hours coking 17.7

% of coke 70.84

Average Charge 13.56 tons, after rejecting Central Indiana Gas Co. and Seattle Lighting Co.

will assume 18 hours for coking, 70% coke and 18 tons oven charge. On that basis each oven would turn out 4,800 tons coke per annum; the average as per schedule is 4,491 say 4,500. 70% of 15,202 equals 10,604 equals 30. cu.ft. of Gas per ton of Coal as per schedule. For purposes of this will adopt 10,000 cu.ft.

By-product oven gas at 600 B.T.U. and Natural Gas at 960 B.T.U.'s, then By-product oven gas is worth 62.5% of Natural Gas.

21,200 cu.ft. of gas at 960 B.T.U.'s equals 23,900 of By-product Gas at 600 B.T.U.'s equals one ton good steam coal.

In good practice in By-product ovens not more than 40% of the gas produced is required to heat the ovens. Where gas is of good value they can be heated by means of producer gas for one half the cost. So it follows that after providing for heating the ovens, 60% of the value of the gas is available to be credited as receipts therefrom.

If one ton coal produces 10,000 cu.ft. gas, 60% of that is 6,000. 6,000 is 25.1% of 23,900. In other words 25.1% of the cost of the coal is met with in the gas obtained in coking it.

Placing coal in Crow's Nest Pass at \$3.75 per ton for mine run. Freight \$2.00. In addition the cost of handling coal in a power house above that of gas to perform the same duty is \$.916 per ton. \$3.75 \$2.00 \$.916 equals \$6.666; 25.1% of that equals \$1.67.

At \$6.666 per ton, by-product oven gas is worth 19.6 cents per M. Motor fuel 2 1/2 gallons per ton at 40¢ per gal. equals 1.00 15% Sulphate ammonia 27 lbs. per ton at 2¢ per lb. equals 67.5 10% 9 gallons per ton of tar at 2 1/2¢ equals 22.5 3.5%

Coal at \$5.75 per ton from which are derived:

Gas	1.57	or	27.3% of cost
Motor spirit	1.00	"	17.4% "
ammonia sulphate	67.5	"	11.7% "
Tar	22.50	or	5.7% "
	3.470		60.1%

will require 18 hours for coking, 70% coke and 18 tons oven charge. On that basis each oven would turn out 4,600 tons coke per annum; the average as per schedule is 4,491 say 4,500. 70% or 16,200 equals 10,804 equals 10,000 cu. ft. of gas per ton of coal as per schedule. For purposes of this will adopt 10,000 cu. ft.

By-product oven gas at 600 B.T.U. and Natural Gas at 900 B.T.U.'s, then By-product oven gas is worth 52.5% of Natural Gas.

11,130 cu. ft. of gas at 900 B.T.U.'s equals 33,900 of By-product Gas at 600 B.T.U.'s equals one ton good steam coal.

In good practice in by-product ovens not more than 4% of the gas produced is required to heat the ovens. Where gas is of good value they can be heated by means of producer gas for one half the cost. So it follows that after providing for heating the ovens, 80% of the value of the gas is available to be credited as receipts therefrom.

If one ton coal produces 10,000 cu. ft. gas, 80% of that is 8,000. 8,000 is 23.6% of 33,900. In other words 23.6% of the cost of the coal is met with in the gas obtained in coking it.

Placing coal in Crow's Nest Pass at \$3.75 per ton for mine and freight \$4.00. In addition the cost of handling coal in a power house above that of gas to perform the same duty is \$.916 per ton. \$3.75 + \$2.00 + \$.916 equals \$6.666; 23.6% of that equals \$1.57.

\$6.666 per ton, by-product oven gas is worth 19.6 cents Per M.
Motor Fuel 4 gallons per ton at 40¢ per gal. equals 1.00 15%
Sulphate Ammonia 47 lbs. per ton at 2¢ per lb. equals 67.5 10%
9 gallons per ton of tar at 2¢ equals 28.5 5.5%

Coal at \$5.75 per ton from which are derived:

Gas	1.57	or	27.3% of cost
Motor Spirit	1.00	"	17.4% " "
Ammonia Sulphate	67.5	"	11.7% " "
Tar	22.50	or	3.7% " "
	<u>3.470</u>		<u>60.1%</u>

Operating expenses per ton \$.605 say \$.70.
assuming 40 ovens at \$50,000 each; (They probably can be built for 60% of that amount) \$2,000,000, interest on cost 8%.
Maintenance and deterioration 4%; total 12% per annum equals \$240,000.
40 ovens at 4,500 tons coke per annum, 70% coke, 6,430 tons coal for each or for the 40: \$57,200 tons for the year or 92.3 cts. per ton for interest.

Operating expenses \$.70 Interest \$.933, together equals \$1.633.

\$3.47 - \$1.633 equals \$1.837 the net receipts over expenses on one ton coal.

Coal at \$5.75 leaving net cost of coal at \$3.913. Made into Coke at 70% equals \$5.59 say \$5.60 per ton of coke.

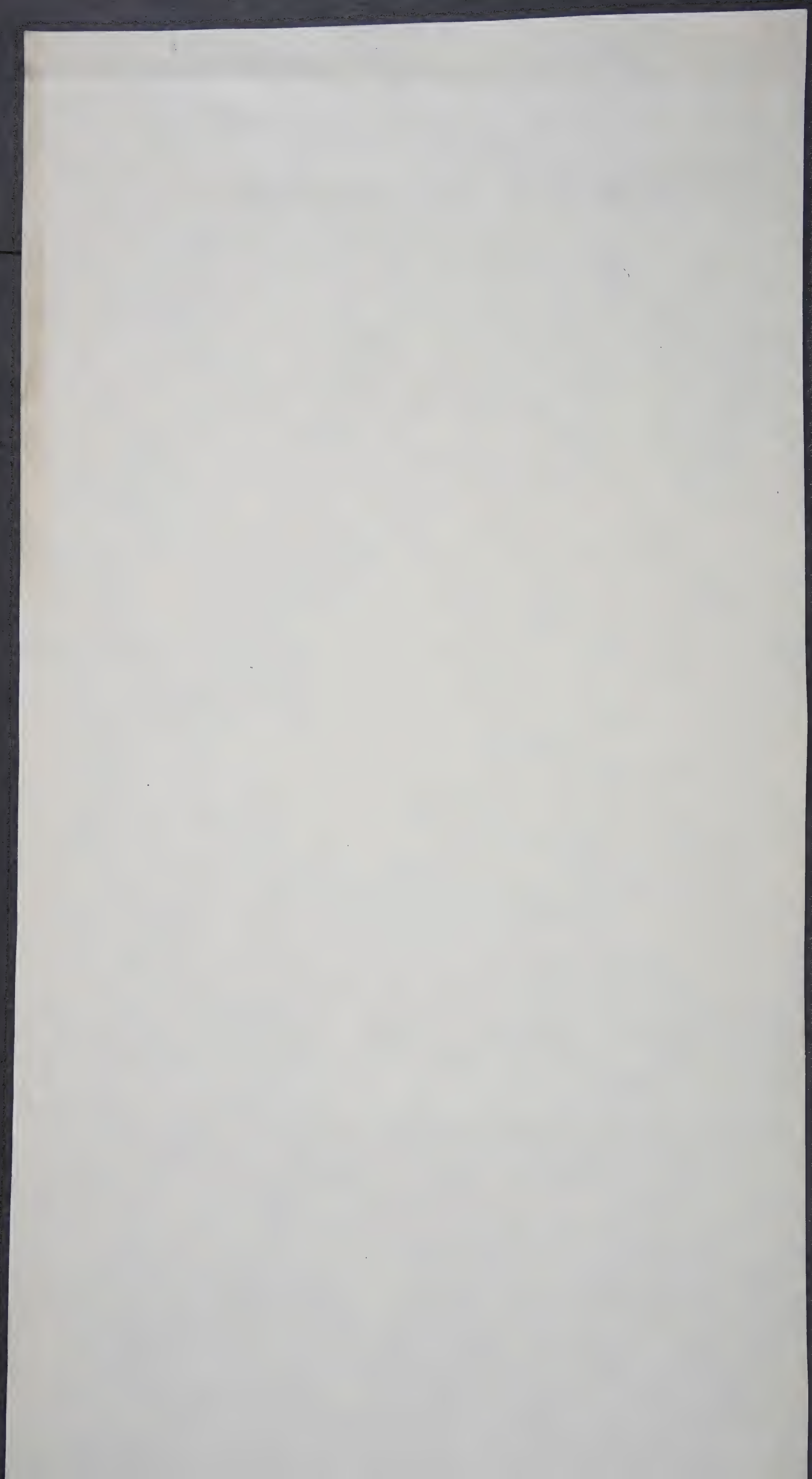
All that coke nets above that price would be profit.

The tar contains a vast number of valuable ingredients; creosotes, explosives, dyes and the residue would make binder for briquetting and probably if there was sufficient, an economical road binder. It is worth the value put on it as a fuel. For creosote, briquette binder and possibly road bitumin or binder, Alberta should furnish the very best possible market. as for the dyes and explosives it is possible that other points might be better located.

In addition if the location of the By-product oven plant is well adapted as a location for a briquetting plant, to combine the two would add very materially to profits of both.

If the by-product oven plant is on the route or approximately on it from the source of supply of Bituminous coals to where the coke is to be disposed that would seem to be a good location for it. If, in addition said location is en route or approximately on it from coals suitable for briquetting to where the briquettes are to be sold, such situation would appear to be the most suitable.

The amounts and values of Sulphate and Tar, also amount of Motor Spirit are taken from Mr. Lucas' Report Page 79 of the Final Report of the Fuel Comptroller of Canada, March 1919.





TO ADVISORY BOARD OF SCANDIA CO. 48

BY-PRODUCT OVENS.

From five tests made by the Officials of the Calgary Power Plant to determine the relative values of coal and natural gas as supplied in Calgary, it would appear that 14,780 cu.ft. of gas is equal to one ton of coal and that was arrived at after rejecting two tests which gave results very much below the average. The coals used by the Power Plant were high grade lignites and for ordinary steam purposes, probably about as good as bituminous, provided the boilers are adapted to burn it.

A very reliable party claims from thorough tests that one ton of good Bituminous Coal from Crow's Nest Pass utilized under the best conditions is equivalent to 25,600 cu.ft. of Calgary Natural Gas.

The mean of the two is 21,190. I have adopted 21,200 cu.ft. Calgary Natural Gas as equivalent to one ton of mine run of good Bituminous Coal in Crow's Nest Pass and think in ordinary practice it will be found such will closely be approximate.

The following calculations are based on coking coals from the said field.

Average No. of tons of coke per oven per annum as per schedule is 4,491 say 4,500.

Average No. of cu.ft. of gas per ton of coke 15,202 or 10,000 per ton of coal. To be conservative assume 10,000 cu.ft. of gas per ton of coal.

Average No. of hours coking 17.7

% of Coke 70.94

Average Charge 12.56 tons, after rejecting Central Indiana Gas Co. and Seattle Lighting Co.

Will assume 18 hours for coking, 70% coke and 12 tons oven charge. On that basis each oven would turn out 4,500 tons coke per annum; the average as per schedule is 4,491 say 4,500. 70% of 15,202 equals 10,604 equals 10,000 cu.ft. of gas per ton of coal as per schedule. For purposes of this will adopt 10,000 cu.ft.

By-product oven gas at 600 B.T.U. and Natural Gas at 960 B.T.U.'s, then By-product oven gas is worth 62.5% of Natural Gas.

21,200 cu.ft. of gas at 960 B.T.U.'s equals 33,900 of By-product Gas at 600 B.T.U.'s equals one ton good steam coal.

In good practice in By-product ovens not more than 40% of the gas produced is required to heat the ovens. Where gas is of good value they can be heated by means of producer gas for one half the cost. So it follows that after providing for heating the ovens, 60% of the value of the gas is available to be credited as receipts therefrom.

If one ton coal produces 10,000 cu.ft. gas, 60% of that is 6,000. 6,000 is 23.6% of 25,900. In other words 23.6% of the cost of the coal is now with in the gas obtained in coking it.

Placing coal in Crow's Nest Pass at \$3.75 per ton for mine run. Freight \$2.00. In addition the cost of handling coal in a power house above that of gas to perform the same duty is \$.916 per ton. \$3.75 \$2.00 \$.916 equals \$6.666; 23.6% of that equals \$1.57.

at \$6.666 per ton, by-product oven gas is worth 19.6 cents per cu.ft. Motor Fuel 2 1/2 gallons per ton at 40¢ per gal. equals 1.00 15% Sulphate Ammonia 27 lbs. per ton at 2¢ per lb. equals .54 10% 9 gallons per ton of tar at 2¢ equals .18 3.0%

Coal at \$6.75 per ton from which are derived:

Gas	1.57	or	27.8% of cost
Motor Spirit	1.00	"	17.4% "
Ammonia Sulphate	.54	"	11.7% "
Tar	.18	or	3.7% "
	3.49		60.1%

On that basis each oven would turn out 4,000 tons coke per annum; the average as per schedule is 4,491 say 4,500. 70% of 15,208 equals 10,604 equals 30.0 cu. ft. of gas per ton of coal as per schedule. For purposes of this will adopt 10,000 cu. ft.

By-product oven gas at 600 B.T.U. and Natural Gas at 960 B.T.U.'s, then By-product oven gas is worth 52.5% of Natural Gas.

21,190 cu. ft. of gas at 960 B.T.U.'s equals 53,900 of By-product Gas at 600 B.T.U.'s equals one ton good steam coal.

In good practice in By-product ovens not more than 40% of the gas produced is required to heat the ovens. Where gas is of good value they can be heated by means of producer gas for one half the cost. So it follows that after providing for heating the ovens, 80% of the value of the gas is available to be credited as receipts therefrom.

If one ton coal produces 10,000 cu. ft. gas, 80% of that is 8,000. 8,000 is 22.5% of 35,900. In other words 22.5% of the cost of the coal is met with in the gas obtained in coking it.

Placing coal in Crow's Nest Pass at \$5.75 per ton for mine run. Freight \$2.00. In addition the cost of handling coal in a power house above that of gas to perform the same duty is \$.915 per ton. \$5.75 \$2.00 \$.915 equals \$8.665; 22.5% of that equals \$1.57.

at \$5.665 per ton, by-product oven gas is worth 19.6 cents per M.
Motor fuel $2\frac{1}{2}$ gallons per ton at 40¢ per gal. equals 1.00 15%
Sulphate Ammonia 27 lbs. per ton at 2¢ per lb. equals 57.5 10%
Tar 2 gallons per ton of gas at 2¢ equals 22.5 3.5%

Coal at \$5.75 per ton from which are derived:			
Gas	1.57	or	37.2% of cost
Motor Spirit	1.00	"	17.4% "
Ammonia Sulphate	57.5	"	11.7% "
Tar	22.50	or	3.7% "
	3.470		60.1%

Operating expenses per ton \$.655 say \$.70.
assuming 40 ovens at \$50,000 each; (They probably can be built for 50% of that amount) \$2,000,000, interest on cost 8%.
Maintenance and deterioration 4%; total 12% per annum equals \$240,000.
40 ovens at 4,500 tons coke per annum, 70% coke, 5,430 tons coal for each or for the 40; 257,200 tons for the year or 95.3 cts. per ton for interest.

Operating expenses \$.70 Interest \$.933, together equals \$1.633.

\$3.47 - \$1.633 equals \$1.837 the net receipts over expenses on one ton coal.

Coal at \$5.75 leaving net cost of coal at \$3.913. Made into Coke at 70% equals \$5.59 say \$5.60 per ton of coke.

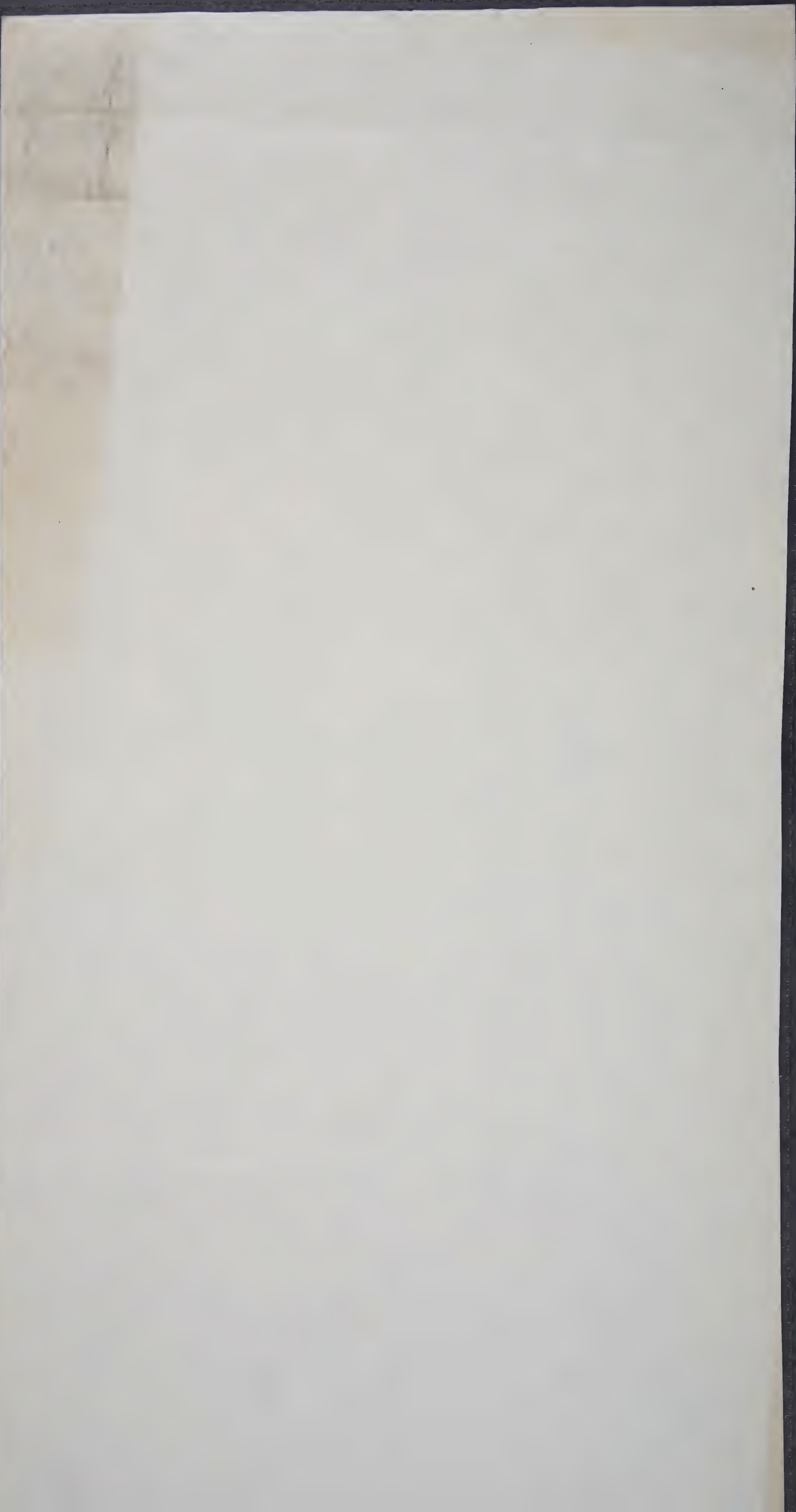
all that coke nets above that price would be profit.

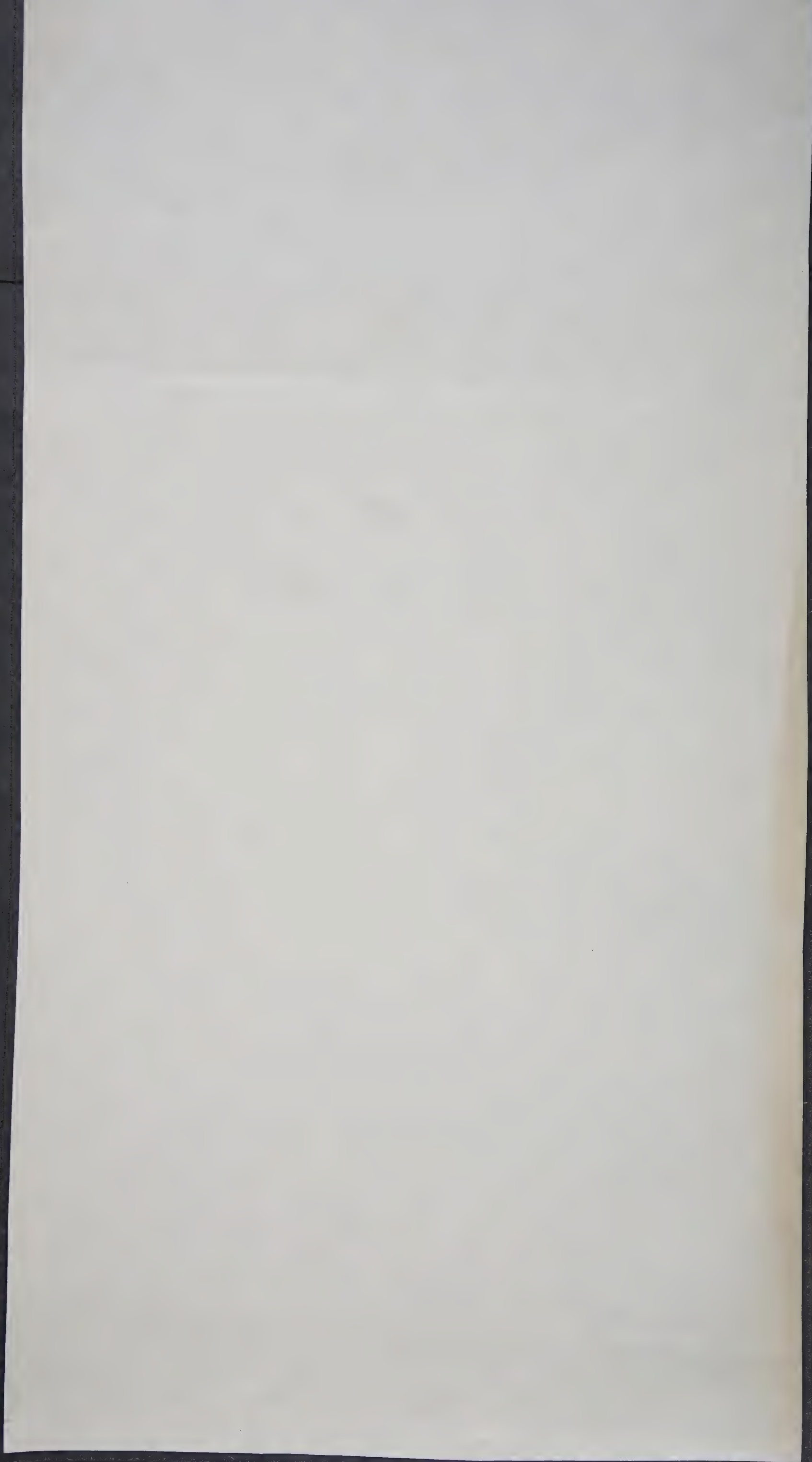
The tar contains a vast number of valuable ingredients; creosote, explosives, dyes and the resins would make binder for briquetting and probably if there was sufficient, an economical road binder. It is worth the value put on it as a fuel. For creosote, briquette binder and possibly road bitumin or binder. Alberta should furnish the very best possible market. As for the dyes and explosives it is possible that other points might be better located.

In addition if the location of the By-product oven plant is well adapted as a location for a briquetting plant, to combine the two would add very materially to profits of both.

If the By-product oven plant is on the river or approximately on it from the source of supply of aluminum oxide to where the coke is to be shipped that would seem to be a good location for it. If, in addition this location is en route or approximately on it from coal fields for briquetting to where the briquettes are to be sold, such situation would appear to be the most suitable.

The amounts and values of Sulphate and Tar, also amount of Motor Spirit are taken from Mr. Logan's Report Page 72 of the Final Report of the Fuel Comptroller of Canada, March 1912.





TO ACCOMPANY GRAPH ON SCHEDULE NO. 49

BY-PRODUCT OVENS.

From five tests made by the Officials of the Calgary Power Plant to determine the relative values of coal and natural gas as supplied in Calgary, it would appear that 16,780 cu.ft. of Gas is equal to one ton of coal and that was arrived at after rejecting two tests which gave results very much below the average. The coals used by the Power Plant were high grade lignites and for ordinary steam purposes, probably about as good as bituminous, provided the boilers are adapted to burn it.

A very reliable party claims from thorough tests that one ton of good Bituminous Coal from Crow's Nest Pass utilized under the best conditions is equivalent to 25,600 cu.ft. of Calgary Natural Gas.

The mean of the two is 21,190. Have adopted 21,200 cu.ft. Calgary Natural Gas as equivalent to one ton of mine run of good Bituminous Coal in Crow's Nest Pass and think in ordinary practice it will be found such will closely be approximate.

The following calculations are based on coking coals from the said field.

Average No. of tons of coke per oven per annum as per schedule is 4,491 say 4,500.

Average No. of cu.ft. of gas per ton of coke 15,202 or 10,604 per ton of coal. To be conservative assume 10,000 cu.ft. of gas per ton of coal.

Average No. of hours coking 17.7

% of Coke 70.94

Average Charge 12.56 tons, after rejecting Central Indiana Gas Co. and Seattle Lighting Co.

Will assume 16 hours for coking, 70% coke and 12 tons oven charge. On that basis each oven would turn out 4,600 tons Coke per annum; the average as per schedule is 4,491 say 4,500. 70% of 15,202 equals 10,604 equals No. cu.ft. of Gas per ton of Coal as per schedule. For purposes of this will adopt 10,000 cu.ft.

By-product oven gas at 600 B.T.U. and Natural Gas at 960 B.T.U.'s, then By-product oven gas is worth 62.5% of Natural Gas.

21,190 cu.ft. of gas at 960 B.T.U.'s equals 36,900 of By-product Gas at 600 B.T.U.'s equals one ton good steam coal.

In good practice in by-product ovens not more than 40% of the gas produced is required to heat the ovens. Where gas is of good value they can be heated by means of producer gas for one half the cost. So it follows that after providing for heating the ovens, 60% of the value of the gas is available to be credited as receipts therefrom.

If one ton coal produces 10,000 cu.ft. gas, 60% of that is 6,000. 6,000 is 25.6% of 23,900. In other words 25.6% of the cost of the coal is met with in the gas obtained in coking it.

Placing coal in Crow's Nest Pass at \$3.75 per ton for mine run. Freight \$2.00. In addition the cost of handling coal in power house above that of gas to perform the same duty is \$.916 per ton. \$3.75 \$2.00 \$.916 equals \$6.666; 25.6% of that equals \$1.707.

At \$6.666 per ton, by-product oven gas is worth 19.6 cents per M. Motor fuel 2 1/2 gallons per ton at 40¢ per gal. equals 1.00 15% Sulphate ammonia 47 lbs. per ton at 2¢ per lb. equals 67.¢ 10% Tar 9 gallons per ton of tar at 2 1/2¢ equals 22.5 3.5%

Coal at \$5.95 per ton from which are derived:

Gas	1.57	or	27.5% of cost
Motor Spirit	1.00	"	15.4% "
Ammonia Sulphate	67.6	"	11.7% "
Tar	22.50	or	3.7% "

per annum; the average as per schedule is 4,491 say 4,500. 10% of 15,202 equals 10,604 equals No. of tons of gas per ton of coal as per schedule. For purposes of this will adopt 10,000 cu.ft.

By-product oven gas at 600 B.T.U. and Natural Gas at 960 B.T.U.'s, then By-product oven gas is worth 62.5% of Natural Gas.

21,190 cu.ft. of gas at 960 B.T.U.'s equals 23,900 of By-product Gas at 600 B.T.U.'s equals one ton good steam coal.

In good practice in By-product ovens not more than 40% of the gas produced is required to heat the ovens. Where gas is of good value they can be heated by means of producer gas for one half the cost. So it follows that after providing for heating the ovens, 80% of the value of the gas is available to be credited as receipts therefrom.

If one ton coal produces 13,000 cu.ft. gas, 80% of that is 10,400. 10,400 is 23.6% of 23,900. In other words 23.6% of the cost of the coal is met with in the gas obtained in coking it.

Placing coal in Crows' Nest Pans at \$3.75 per ton for mine run. Freight \$2.00. In addition the cost of handling coal in a power house above that of gas to perform the same duty is \$.916 per ton. \$3.75 \$2.00 \$.916 equals \$6.666; 23.6% of that equals \$1.57.

At \$6.666 per ton, By-product oven gas is worth 19.6 cents per cu.ft. Motor fuel $2\frac{1}{2}$ gallons per ton at 40¢ per gal. equals 1.00 15% Sulphate ammonia 27 lbs. per ton at 2¢ per lb. equals 67.5 10% Tar 3 gallons per ton of tar at 2¢ equals 22.5 3.5%

Coal at \$3.75 per ton from which are derived:

Gas	1.57	or	27.5% of cost
Motor Spirit	1.00	"	15.45 "
ammonia Sulphate	67.5	"	11.75 "
Tar	22.50	or	3.75 "
	3.470		60.1%

Operating expenses per ton 3.685 say \$3.70. assuming 40 ovens at \$50,000 each; (They probably can be built for 80% of that amount) \$2,000,000, interest on cost 6%. Maintenance and deterioration 4%; total 12% per annum equals \$240,000. 40 ovens at 4,500 tons coke per annum, 70% coke, 5,430 tons coal for each or for the 40,257,300 tons for the year or 93.5 cts. per ton for interest.

Operating expenses \$3.70 Interest 3.933, together equals \$1.633.

\$3.47 - \$1.633 equals \$1.837 the net receipts over expenses on one ton coal.

Coal at \$3.75 leaving net cost of coal at \$2.913. Made into coke at 70% equals \$5.52 say \$5.60 per ton of coke.

All that coke sells above that price would be profit.

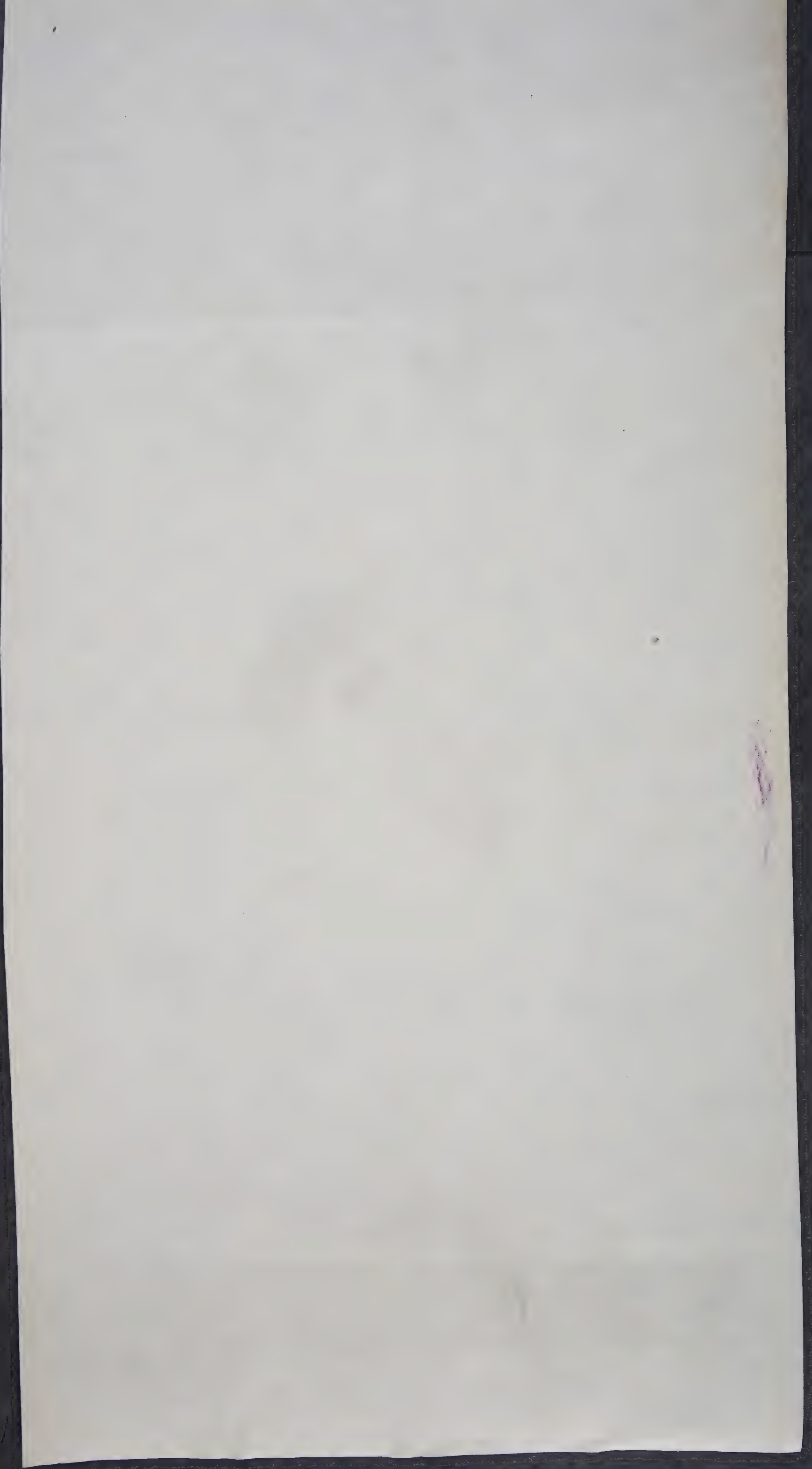
The tar contains a vast number of valuable ingredients; cresols, explosives, dyes and the residue would make binder for briquetting and probably if there was sufficient, an economical road binder. It is worth the value put on it as a fuel. For cresols, briquette binder and possibly road bitumin or binder, Alberta should furnish the very best possible market. As for the dyes and explosives it is possible that other points might be better located.

In addition if the location of the By-product oven plant is well adapted as a location for a briquette plant, so that the coke can be disposed of where it is most profitable.

If the by-product oven plant is on the route or approximately on it from the source of supply of bituminous coals to where the coke is to be disposed that would seem to be a good location for it. If, in addition said location is en route or approximately on it from coals suitable for briquetting to where the briquettes are to be sold, such situation would appear to be the most suitable.

The amounts and values of Sulphate and Tar, also amount of Motor Spirit are taken from Mr. Lucas' Report Page 79 of the Final Report of the Fuel Comptroller of Canada, March 1919.

Sept 19 to 20 - 1st day of Sept 19
By - 1st day of Sept 19



COAL COMPANY STATEMENT OF SCHEDULE NO. 48

BY-PRODUCT OVENS.

From five tests made by the Officials of the Calgary Power Plant to determine the relative values of coal and natural gas as supplied in Calgary, it would appear that 16,750 cu.ft. of gas is equal to one ton of coal and that was arrived at after rejecting two tests which gave results very much below the average. The coals used by the Power Plant were high grade lignites and for ordinary steam purposes, probably about as good as bituminous, provided the boilers are adapted to burn it.

A very reliable party claims from thorough tests that one ton of good bituminous coal from Crow's Nest Pass utilized under the best conditions is equivalent to 25,600 cu.ft. of Calgary natural gas.

The mean of the two is 21,190. Have adopted 21,200 cu.ft. Calgary Natural Gas as equivalent to one ton of mine run of good Bituminous Coal in Crow's Nest Pass and think in ordinary practice it will be found such will closely be approximate.

The following calculations are based on coking coals from the said field.

Average No. of tons of coke per oven per annum as per schedule is 4,491 say 4,500.

Average No. of cu.ft. of gas per ton of coke 15,208 or 10,604 per ton of coal. To be conservative assume 10,000 cu.ft. of gas per ton of coal.

Average No. of hours coking 17.7

% of Coke 70.94

Average Charge 12.56 tons, after rejecting Central Indiana Gas Co. and Seattle Lighting Co.

Will assume 18 hours for coking, 70% coke and 12 tons oven charge. On that basis each oven would turn out 4,600 tons coke per annum; the average as per schedule is 4,491 say 4,500. 70% of 15,208 equals 10,604 equals No. cu.ft. of Gas per ton of Coal as per schedule. For purposes of this will adopt 10,000 cu.ft.

By-product oven gas at 600 B.T.U. and Natural Gas at 960 B.T.U.'s, then By-product oven gas is worth 62.5% of Natural Gas.

21,190 cu.ft. of gas at 960 B.T.U.'s equals 23,900 of By-product Gas at 600 B.T.U.'s equals one ton good steam coal.

In good practice in by-product ovens not more than 40% of the gas produced is required to heat the ovens. Where gas is of good value they can be heated by means of producer gas for one half the cost. So it follows that after providing for heating the ovens, 60% of the value of the gas is available to be credited as receipts therefrom.

If one ton coal produces 10,000 cu.ft. gas, 60% of that is 6,000. 6,000 is 25.1% of 23,900. In other words 25.1% of the cost of the coal is met with in the gas obtained in coking it.

Placing coal in Crow's Nest Pass at \$3.75 per ton for mine run. Freight \$2.00. In addition the cost of handling coal in a power house above that of gas to perform the same duty is \$.916 per ton. \$3.75 \$2.00 \$.916 equals \$6.666; 25.1% of that equals \$1.67.

At \$6.666 per ton, by-product oven gas is worth 19.6 cents per M. Motor fuel 2 1/2 gallons per ton at 40¢ per gal. equals 1.00 15% Sulphate Ammonia 27 lbs. per ton at 2¢ per lb. equals 57.5 10% 9 gallons per ton of tar at 2 1/2¢ equals 22.5 3.5%

Coal at \$5.75 per ton from which are derived:

Gas	1.57	or	27.3% of cost
Motor Spirit	1.00	"	17.4% "
Ammonia Sulphate	57.5	"	11.7% "
Tar	22.50	or	3.9% "
	\$5.47		\$5.47

charge. On that basis each oven would turn out 4,600 tons Coke per annum; the average as per schedule is 4,491 say 4,500. 70% of 10,202 equals 10,604 equals No. cu. ft. of Gas per ton of Coal as per schedule. For purposes of this will adopt 10,000 cu. ft.

By-product oven gas at 600 B.T.U. and Natural Gas at 960 B.T.U.'s, then By-product oven gas is worth 62.5% of Natural Gas.

21,190 cu. ft. of gas at 960 B.T.U.'s equals 33,900 of By-product Gas at 600 B.T.U.'s equals one ton good steam coal.

In good practice in By-product ovens not more than 40% of the gas produced is required to heat the ovens. Where gas is of good value they can be heated by means of producer gas for one half the cost. So it follows that after providing for heating the ovens, 80% of the value of the gas is available to be credited as receipts therefrom.

If one ton coal produces 10,000 cu. ft. gas, 80% of that is 8,000. 8,000 is 23.6% of 33,900. In other words 23.6% of the cost of the coal is met with in the gas obtained in coking it.

Placing coal in Crow's Nest Pass at \$3.75 per ton for mine run. Freight \$2.00. In addition the cost of handling coal in a power house above that of gas to perform the same duty is \$.916 per ton. \$3.75 \$2.00 \$.916 equals \$6.666; 23.6% of that equals \$1.57.

At \$6.666 per ton, by-product oven gas is worth 19.6 cents Per M. Motor fuel 2 1/2 gallons per ton at 40¢ per gal. equals 1.00 15% Sulphate Ammonia 27 lbs. per ton at 2 1/2¢ per lb. equals 67.5 10% 9 gallons per ton of tar at 2 1/2¢ equals 22.5 3.5%

Coal at \$5.75 per ton from which are derived:

Gas	1.57	or	27.3%	of cost
Motor Spirit	1.00	"	17.4%	" "
Ammonia Sulphate	67.5	"	11.7%	" "
Tar	22.50	or	3.7%	" "
	3.470		60.1%	

Operating expenses per ton \$.685 say \$.70. assuming 40 ovens at \$50,000 each; (They probably can be built for 80% of that amount) \$2,000,000, interest on cost 8%. Maintenance and deterioration 4%; total 12% per annum equals \$240,000. 40 ovens at 4,500 tons coke per annum, 70% coke, 6,430 tons coal for each or for the 40; 257,200 tons for the year or 93.3 cts. per ton for interest.

Operating expenses \$.70 Interest \$.233, together equals \$1.633.

\$3.47 - \$1.633 equals \$1.837 the net receipts over expenses on one ton coal.

Coal at \$5.75 leaving net cost of coal at \$3.913. Made into Coke at 70% equals \$5.59 say \$5.50 per ton of coke.

All that coke nets above that price would be profit.

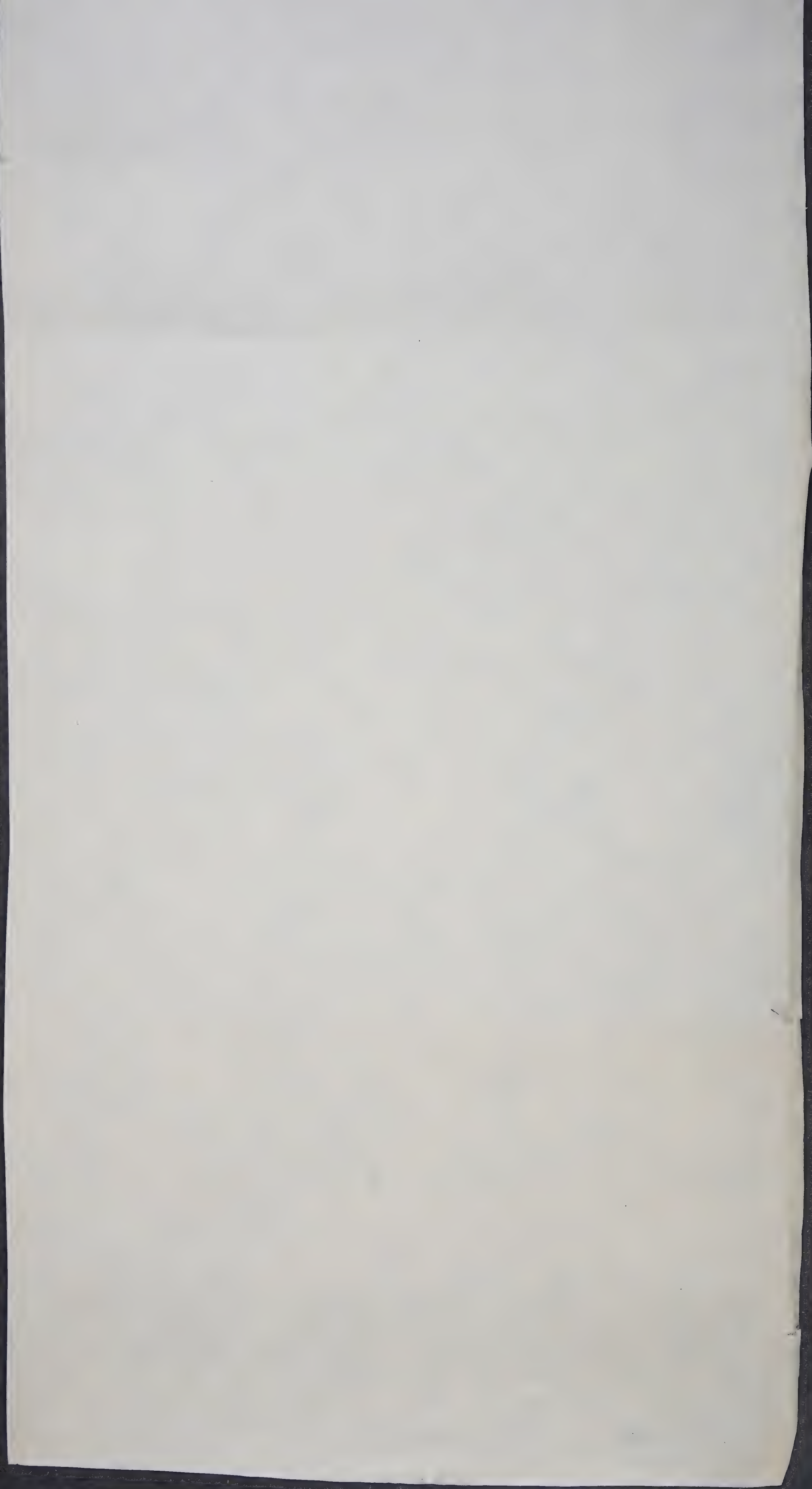
The tar contains a vast number of valuable ingredients; creosote, explosives, dyes and the residue would make binder for briquetting and probably if there was sufficient, an economical road binder. It is worth the value put on it as a fuel. For creosote, briquette binder and possibly road bitumin or binder, Alberta should furnish the very best possible market. As for the dyes and explosives it is possible that other points might be better located.

In addition if the location of the By-product oven plant is well adapted as a location for a briquetting plant, to combine the two would add very materially to profits of both.

If the By-product oven plant is on the route or approximately on it from the Source of Supply of Bituminous coals to where the coke is to be disposed that would seem to be a good location for it. If, in addition said location is en route or approximately on it from coals suitable for briquetting to where the briquettes are to be sold, such situation would appear to be the most suitable.

The amounts and values of Sulphate and Tar, also amount of Motor Spirit are taken from Mr. Lucas' Report Page 79 of the Final Report of the Fuel Comptroller of Canada, March 1919.





Authority - Browns Directory of American Gas Companies Gas Statistics 1919, Progressive Age Publishing Co. 52 Vanderbilt Ave New York.
This embraces practically all the By Product Coke oven plants in U.S. and Canada shown in said Authority and being operated.

BY-PRODUCT

In 1919 in the U.S. Beehive ovens produced 84.09% and By Product ovens 15.91% of the total coke production 39,305,018 tons. In 1918 83.7% and 16.3%.

For metallurgical purposes a higher grade of coke is required than for Domestic. In other words

Page	State or Country	Town or City	Name of Company	Capital including Bonds	Koppers Ovens							Semet-Solvay Ovens							Otto Hoffman Ovens							
					No. of Ovens	Size Length x Width x Height	Charge in Tons	Hours for Coking	Percentage of Coke Produced	BTU's of Gas	Canale Power	No. of Ovens	Size Length x Width x Height	Charge in Tons	Hours for Coking	Percentage of Coke Produced	BTU's of Gas	Canale Power	No. of Ovens	Size Length x Width x Height	Charge in Tons	Hours for Coking	Percentage of Coke Produced	BTU's of Gas	Canale Power	
445	Alabama	Alabama City	Gulf States Steel Co.	\$11,000,000	37	37' x 19 1/2' x 9' 10"	12.28	17	78	525																
"	"	Birmingham	Stess Sheffield Steel & Iron Co.	\$20,000,000								120	Under construction													
"	"	Eastley	Semet Solvay Co.									240	30' x 16 1/2' x 4' 9"-6' 3"													
"	"	Fairfield	Tennessee Coal Iron & R.R. Co.	\$6,772,000	280	37'8" x 19 1/2' x 9' 10"	12.5																			
"	"	Holt	Central Steel & Coal Co.									60	35' x 16 1/2' - 20' x 8' 2"													
"	"	Woodward	Woodward Iron Co.		170	also 60 Wilmulle ovens																				
446	Colorado	Pueblo	The Colorado Fuel & Iron Co.	\$91,200,000	120	40' x 18' x 10'	13	18	67.6	587																
"	Illinois	Chicago	The By-Product Coke Corp.									280	36' x 16 1/2' x 10' 2"-10' 6"													
"	"	"	Wisconsin Steel Co.	\$1,000,000																						
"	"	Joliet	Coal Products Manufacturing Co.	\$1,183,000	35	35' x 18' x 9'	also 18 Wilmulle ovens																			
"	"	"	Illinois Steel Co.	\$18,500,000	280	35' x 18' x 8' 9"	10.5																			
447	"	Waukegan	North Shore Gas Co.	\$5,000,000								13	20' x 18' x 9'	8.5	22	56.5	20									
"	Indiana	Gary	Illinois Steel Co.		700	37' x 19' x 9' 10 3/4"	12.5																			
"	"	Indiana Harbor	By-Product Coke Corp.	\$12,000,000								120	36' x 19 1/2' x 10' 9 1/2"	under construction.												
"	"	"	Inland Steel Co.	\$36,000,000	130	37' x 18 1/2' - 21' x 9' 10 3/4"	13.25	18	72	525																
"	"	Indianapolis	Citizens Gas Co.	\$12,000,000																						
"	"	"	"	"								41	36' x 19 1/2' x 12'	15	24	80	579	8	100	7' 9" long.	7.5	24		617		
448	"	Muncie	Central Indiana Gas Co.	\$8,500,000	22	19' x 20' x 7'	5	24	70	580																
"	"	Terra Haute	Indiana Coke & Gas Co.	\$3,175,000	60	37' 4 1/4' x 15' 11" x 11' 9 1/2"	13	17	65	525																
"	Kentucky	Ashland	Kentucky Solvay Coke Co.	\$5,200,000								108	36' x 21' x 12'													
449	Maryland	Spinnar Point	Bethlehem Steel Co.	\$365,000,000	180	37' x 18 1/2' - 21' x 9' 10 3/4"	13.5	18	70																	
"	Massachusetts	Dorset	New England Fuel & Transportation Co.	\$25,000,000															400	33' x 18' x 6'						
"	Michigan	Detroit	Detroit City Gas Co.	\$3,000,000								215														
"	"	"	Ford Motor Co.									120	Under construction													
"	"	"	Semet-Solvay Co.									215	30' 3/4' x 16' - 20' x 8' 2"-10' 9"													
"	Minnesota	Duluth	Minnesota Steel Co.		90																					
450	"	"	Zenith Furnace Co.	\$1,500,000															65	33' x 17 1/2' x 6' 6"		20	70	480		
"	"	St. Paul	Minnesota By-Product Coke Co.	\$3,000,000	65	39' 6' x 18 1/2' x 9' 10 3/4"	12.25	17	72	630	14															
"	Missouri	St. Louis	Laclede Gas Light Co.	\$28,000,000	56	37' 6' x 19 1/2' x 9' 10"	13.25	18																		
"	New Jersey	Camden	Camden Coke Co.	\$350,000															150							
"	"	Jersey City	Seaboard By-Product Coke Co.																165	39' 6' x 18 1/2' x 9' 10 3/4"	12.5	17	72	520		
451	New York	Buffalo	Donner Union Coke Corp.		150	40' x 18 1/2' - 18' x 10'	11.7	14	70	under construction																
"	"	"	Semet-Solvay Co.									60	36' x 19 1/2' x 10' 9"													
"	"	Geneva	Empire Coke Co.	\$1,750,000								46	35' x 16' x 7' 4"-8' 4"				8.4	21	72	590						
"	"	Lackawanna	Lackawanna Steel Co.	\$56,900,000								60	under construction													
"	"	"	"																470	32' 2 1/2' x 13' 1/2' x 6' 4"						

OVENS.

Owing to investments and location of Beehive oven plants they will only gradually decrease, otherwise the output would soon be wholly By-Product. When By-Product oven gas is in demand, Producer gas can readily be substituted for heating ovens thereby affecting very considerable economy.

Total Tonnage 56,670,000 Tons. Increase in Total coke Tonnage 1909-1918. 44.2%. Decrease in Beehive 8.1%. Increase in By-Product 319.9%.

Basic coke which would not make metallurgical

By-Products									Coke Classification			Cub feet of Gas per Oven per Hour	Cub feet of Gas per Ton of Coke	Remarks
Tar in Gals.	Ammonia Sulphate in lbs.	Pure Benzol in gals.	Pure Tolual in gals.	Xylol in gals.	Solvent Naphtha in gals.	Naphthalen in Tons	Gas M. Cu. Ft.	Blast Furnace Tons	Breeze Tons	Other Purposes Tons				
7,000	1,926,000	3,400,000	290,000	84,000	30,000	37	2,847,000	All			38	5054	15,866,340	All coke produced used for plant furnaces <small>Gas production evidently 1000 times as great and have so taken it.</small>
														Parent Coy. Semet-Solvay Coy. Syracuse Cap. \$20,000,000
														Coke used for metallurgical purposes. Controlled by U.S. Steel Corp.
														Coke used for Blast Furnaces. Operated by Semet Solvay Coy. Syracuse
														Coke used for Blast Furnaces.
	2,963,482	7,492,680	456,447	119,517	96,360		3,588,275				46			Coke used for Blast furnaces 6 months output. Operated by Semet Solvay Coy.
							1630							88 Wilputte ovens under construction.
							355					1858	14,776	Controlled by U.S. Steel Corp. Metallurgical coke made
60.	417,330.	134,160.												Controlled by Chicago Gas & Electric Coy.
														Controlled by U.S. Steel Corp.
233	740,859	15,401,891	1,113,685	247,796	103,784	121	8,609	All			45	4609	14,366	
	2,801,582	1,600,635					3841				50			
	1,921,848	2,339,867	469,787	143,199	7713	41,943	30	2,482			36			Also 40 Wilputte ovens. <small>[Gas production evidently 1000 times as great]</small>
100	360,000	180,000					360,000					1145	14,285,740	Controlled by Metropolitan Gas & Electric Coy. Klonne ovens used.
300	1,144,911	769,074	260,000	50,000	11,000	4,000	20				70	4800		Includes 30 Gas Machinery Coy. By-Product Coke Ovens. <small>Gas not taken</small>
813	702,127	20,193,436				28	11,822	All			498	4108	18,988	180 Koppers ovens under construction.
							2845							Operated by Semet Solvay Coy. Syracuse.
														Parent Coy Semet Solvay Coy. Syracuse.
														Controlled by U.S. Steel Corp.
50.	1,612,000	822,000					705	All			50	1863	5805	Evidently an error in either quantity of coke or gas or both.
							2032							Controlled by Pittsburg By-Product Coke Coy.
	400,000	5,000,000	670,000	131,300	167,000		2222				45			Controlled by Pittsburg By-Product Coke Coy. 5 months output
														Controlled by Donner Steel Coy.
72.	1,539,108	2,597,154	232,259				379				55	2467	5143	Parent Coy Semet Solvay Coy. Syracuse <small>Evidently a mistake in coke or gas or both.</small>
														Coke used for Blast Furnaces. Includes 282 Kothburg ovens.

	4000000.	5000000.	670.000	131300.		167.000.		2222.				45			Controlled by Pittsburg Bq. Product Coke Coy. 5 months output Controlled by Dunner Steel Coy.
2572	1539108.	2597154	232.259					379				55	2447	3143	Brent Coy Semet Solvay Coy Syracuse ^{and also, some coke in coke at gas at both} Coke used for Blast Furnaces. Includes 202 Kolthburg ovens.
	10	20	2	7	3	5		10				45			Controlled by M.A. Hanna Coy. Robert's Flueless ovens.
31981	2672,039	7540.157	648957.	123664		36491.	115	3043				45	4934	13204	Controlled by U.S. Steel Corp. Operated by Semet Solvay Coy.
48260	10,950,000	29,200,000	2372500.	438,000.		182,600	187	12775	811360.	36500.		45	4158	15060	12000000 cu ft is evidently 12775000000 and have accepted the latter Not operating
												60			Controlled by U.S. Steel Corp.
26423.	5,057,640.	14,107,113.	801.112	248122.		112,000.		6436.	386242.	27546.	12455	36	4536	15,093	Coke used in Blast Furnace. ^{Evidently the gas is used for gas and not for coke}
5605	5,169,000	19,985460	1176.762	247350.		44,679		6253				47	4315	15415	Controlled by Pickands Mather & Coy.
									All			40			
50,000	14,454,000	39,750,000.						20,777.				45	4985	16622	Coke used for Blast Furnaces Coke used for Blast Furnaces. Controlled by U.S. Steel Corp. also 128 ovens under construction. Operated by Semet Solvay Coy.
	8,592,650.	7,067,560	585.267	224,209.	25100	90680		18879.				54			Controlled by Midvale Steel & Ordnance Coy. Coke used in Blast Furnaces.
												40			
0.000.	16,000,000	50,000,000.	6,000,000.					12					4333		Estimated Production. Evidently some mistake, not taken for gas per ton Includes 150 Didier ovens. 212 extra ovens under construction. Cap. stock owned by Bethlehem Steel Coy.
000	900,000.	2,400,000						480				4983	4364		Est. Gas sold to Chattanooga Gas Coy for Domestic use Klönne ovens used. Evidently a mistake
500	337,000							46				2675	1391		
3380	2,395,318	5,132,050	448,098.	122,782.		21308.		3,685,519							
3204	6,877,389	21,087,043					122	9836				71	2347	34549	Gas given evidently 100 tons per year
													5145	11948	
033	5,060,682.	11,320,108.	93,489.	144,496.	28929.	8106.	22	1,656,425.	All			60			
												55			Wilpate ovens
3033.	2,636,753.	9,730,023						2,524				40			Controlled by Lake Superior Corp.
ure combined															

W. Pearce Feb 12th 1920

For Gas per ton of Coke in Koppers ovens rejecting for reasons given. Central Indiana Gas Co of Muncie, Ind. and The Seattle Lighting Co. The balance overage 15202 cu ft of gas per ton of Coke.
but they should be rejected, the overage of the balance is 4491 tons of coke per oven per annum.

under construction						165	396	18 1/2	9 10 3/8	125	17	72	520	135	80	20	4000.000.	5000.000.	670.000	1313.00.	167.000.	2222.		
60	36' x 19 1/2" x 10' 9"																							
46	35' x 16' x 7 1/2" x 8' 11"	84	21	72	590										50	80	112572	1539108	2597154	232.259		579		
60	under construction.					470	322 1/2	13 3/4	6' 4"															
40	30' x 16 1/2" x 6' 7"																							
520															100			10	20	2	7	3	5	10
539															80	20	231981	2672.039	7540.157	648957	123664.	36491	115	3043
100	34' 6" x 16' 20' x 8' 2"																							
60	under construction																							
520						100									85	15	848260	10.950.000	29200.000.	2372.500.	438.000.	182.600	187	12775 811760 365
								6.75	24	72	685	15	80	20										
60	36' x 21' x 12'																							
108	36' x 21' x 12'																							
574															85	15	426423	5057640	4107113	801.112	248122	112000.	6436	386242 275
527															85	15	405.605	5169000	14985460	1110.762	247350.	44.679	6253	
															80	20								111
																	1250.000	14464.000	39750000.				20.777.	111
40	30' x 15" x 8'	75	21	75	370	5																		
110	30' x 16 1/2" x 4' 9" x 4'																							
						212	43' 9" x 17 1/4" x 7'	9' 5"																
						552	32' x 17' 19" x 6' 1/2" x 9' 10" x 9' 10" x 12'	21	70	520			30	70		8.599.650.	7.067.560.	585.267.	224.209	25100	90684	18879.		
						220	33' x 17' 22" x 6' 5"	6	34	70	500	17	67	33										
						120	33' 5" x 16' x 6' 6"	6		725														
																	1300.000.	16.000.000	50.000.000.	6.000.000.			12	
00																								
120																								
under construction.																								
24						16											110.000	900.000.	2400.000				480	
07																	33.500	337.000					46	
ction																								
						105			9.12	19	75		71	29	253380.	2.395.328	6.132.055	448.098.	122.752.	32308.		3.685.519		
60	35' x 16 1/2" x 9' 6"	999	15	82	610												823.204	6.877.389.	21.057.043			1122	9836	
C A N A D A																								
						670	33' 34" x 17' 1/2" x 6' 5"	35-94	26-38	65-7	145		100		471033	5.060.682.	11320.108	93.489.	144496.	28929.	8106.	22	1656.425	111
15																								
Wilpulle ovens													60	40	408033	2.636753.	9.730023						2.524	
Wilpulle ovens													60	40										
2520						3231	Wilpulle ovens 100	Orta United of Otto Hoffman are combined																
221%						28.9%	Wilpulle 0.9%																	

ral Indiana Gas Co of Muncie Ind. and the Seattle Lighting Coy of Seattle which two differ so much from the average that they should be rejected. The average of the balance is 4491 tons of coke per oven per annum.

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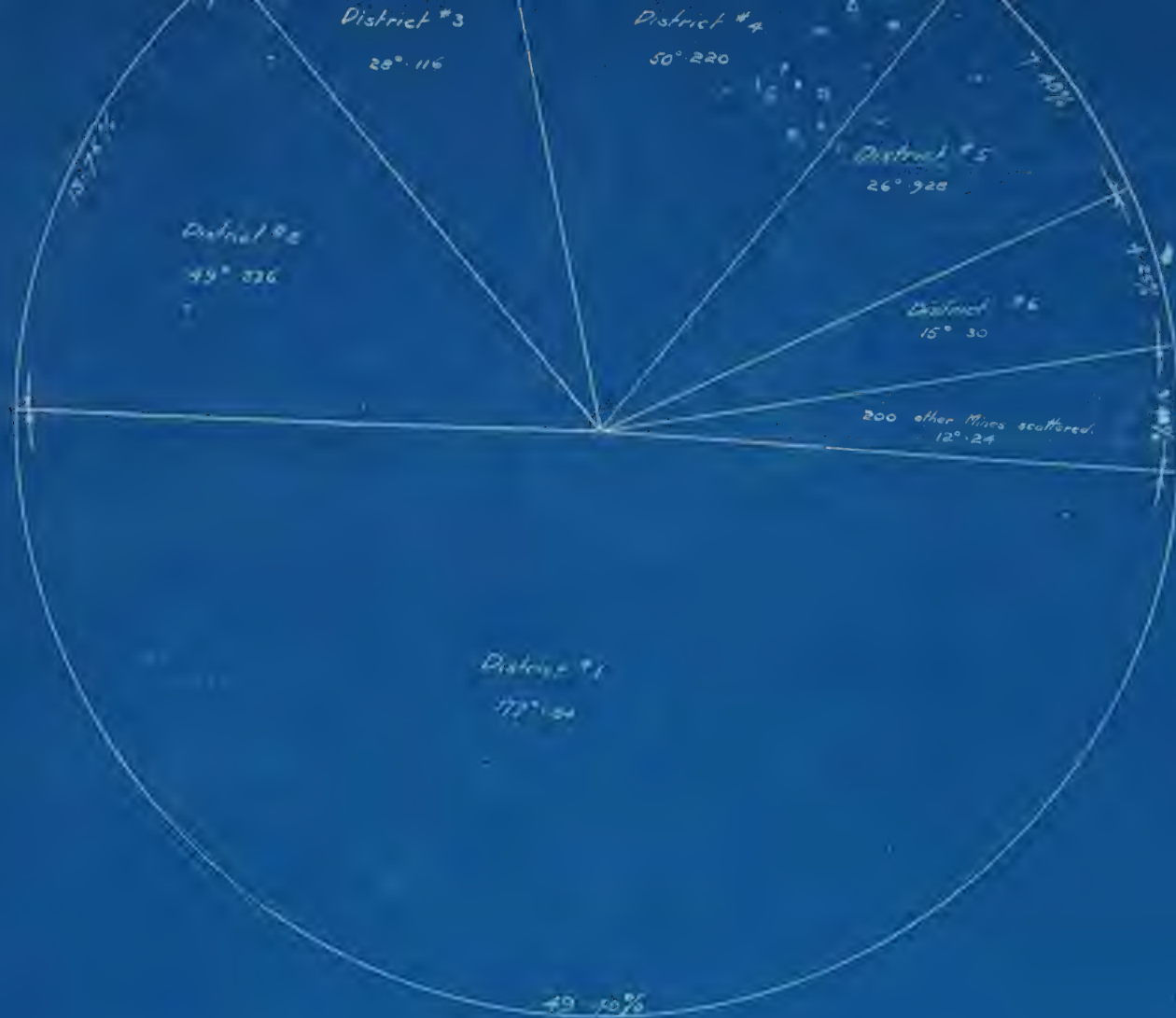
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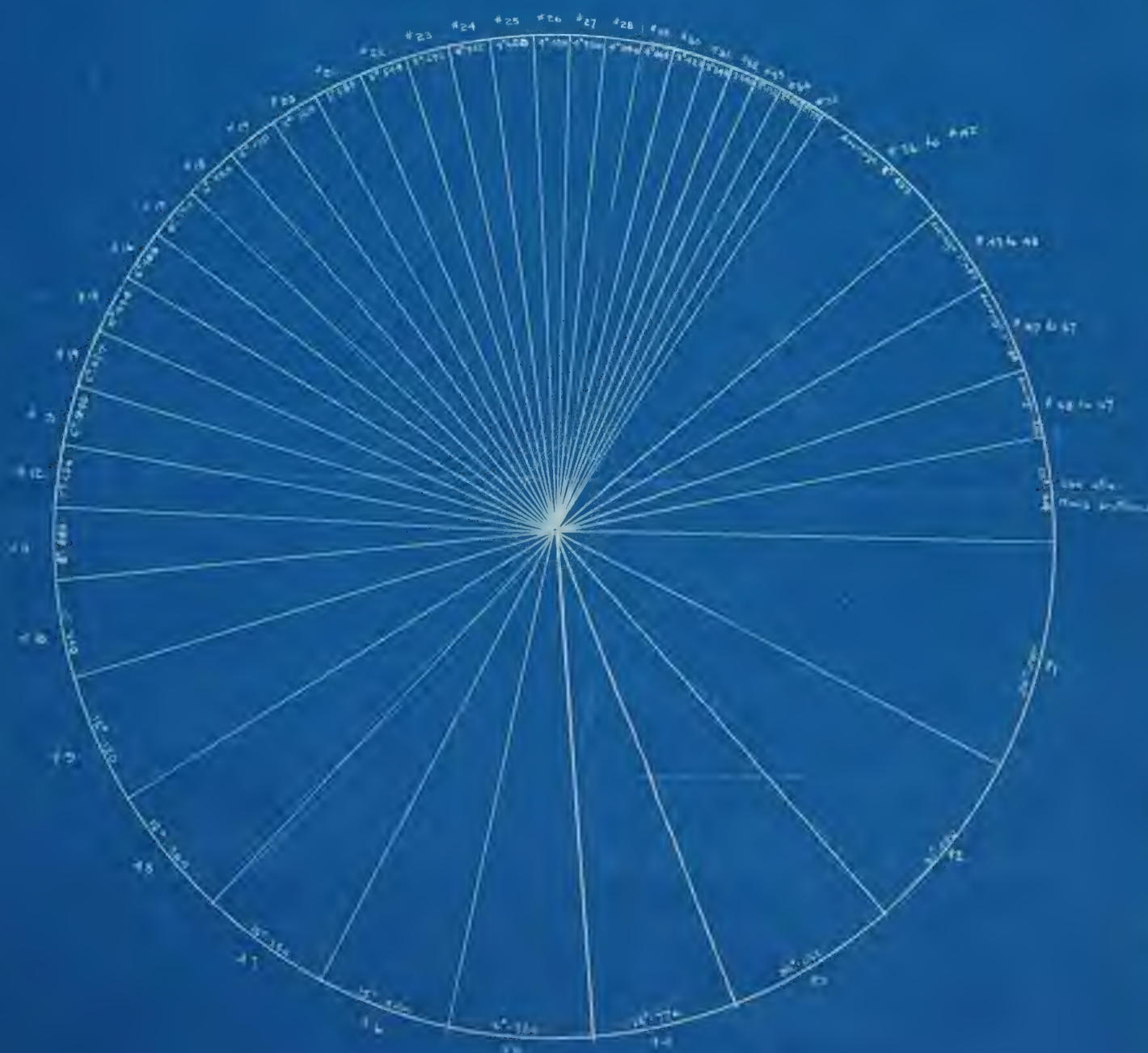




Graph showing by Degrees which represent the percentages of the Output of the various Mines listed above and numbered in order of Production

Total. 5,972,816 Tons.

Degrees ÷ 3.60 = Percentages



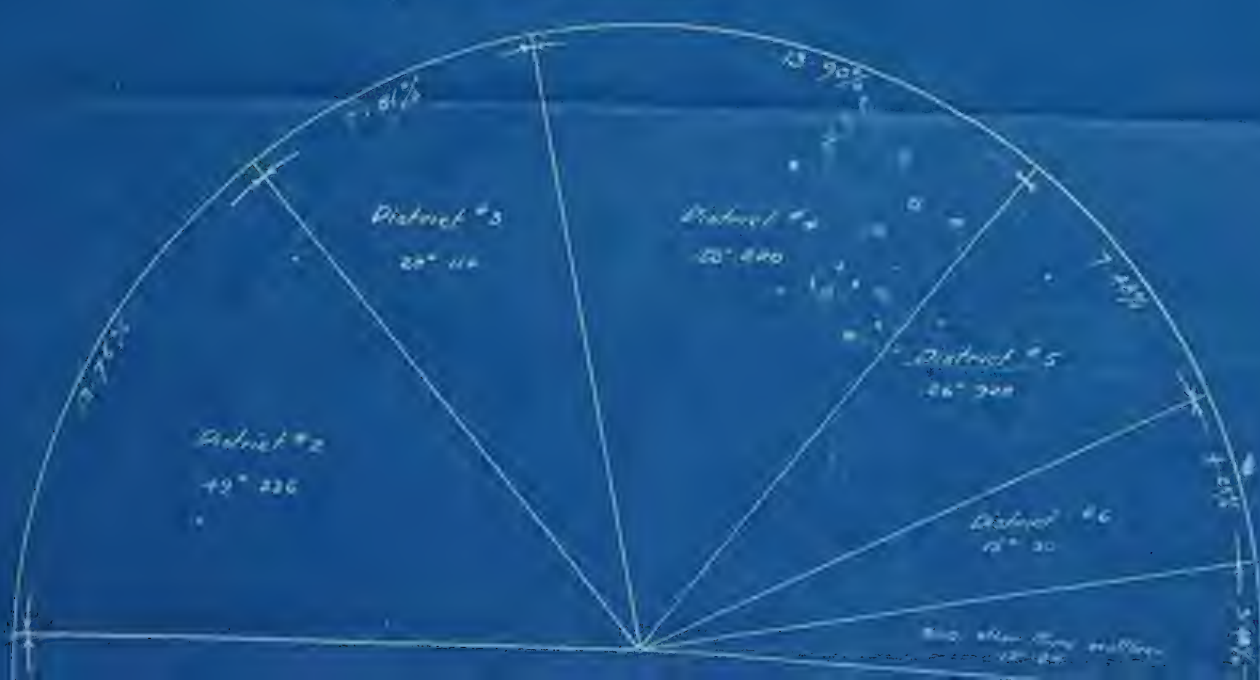
Western Canadian Collieries Ltd., Calgary	1	1	434,862	7.28
Western Canadian Collieries Ltd., Northridge	2	2	356,216	6.16
Western Canadian Collieries, Greenhill	1	3	363,128	6.27
McWilliams Coal & Coke Co., Coleman	1	4	277,400	4.82
Canmore Coal Co. Ltd., Canmore	1	5	274,742	4.79
C.C.C. Collieries No. 6, Lethbridge	1	6	254,980	4.43
Hillcrest Collieries Ltd., Hillcrest	1	7	253,420	4.42
International Coal & Coke Co. Ltd., Coleman	2	8	252,409	4.41
Lethbridge Colliery, Coalhurst (Algo)	1	9	250,426	4.40
Blue Diamond Coal Co. Ltd., Blue Mines	4	10	188,739	3.28
Mountain Park Coal Co. Ltd., Mountain Park	5	11	137,042	2.39
Canmore Coal Co. Ltd., Canmore	5	12	180,589	3.14
Mountain Park Coal Co. Ltd., Canmore	1	13	115,401	2.02
Mountain Park Coal Co. Ltd., Canmore	5	14	110,317	1.94
Canmore Coal Co. Ltd., Canmore	5	15	106,443	1.87
Canmore Coal & Coke Products Co., Canmore	1	16	106,363	1.87
C.C.C. Collieries No. 3, Lethbridge	1	17	105,364	1.86
Chinook Coal Co. Ltd., Canmore	1	18	103,429	1.83
Canmore Coal Co. Ltd., Canmore	1	19	101,749	1.79
Canmore Coal Co. Ltd., Canmore	4	20	94,976	1.67
Canmore Coal Co. Ltd., Canmore	4	21	94,942	1.67
Canmore Coal Co. Ltd., Canmore	2	22	92,362	1.63
Western Canadian Collieries Ltd., Canmore	2	23	87,715	1.54
Alberta Coal Mining Co. Ltd., (The) Canmore	2	24	61,958	1.09
Canmore Coal Co. Ltd., Canmore	3	25	77,323	1.36
Canmore Coal Co. Ltd., Canmore	3	26	75,582	1.33
Canmore Coal Co. Ltd., Canmore	6	27	72,192	1.28
Canmore Coal Mining Co. Ltd., (The) Canmore	4	28	71,620	1.27
Canmore Coal Co. Ltd., Canmore	5	29	67,890	1.19
Canmore Coal Co. Ltd., Canmore	4	30	56,812	1.00
Canmore Coal Co. Ltd., Canmore	6	31	55,640	.98
Canmore Coal Co. Ltd., Canmore	2	32	54,057	.95
Canmore Coal Co. Ltd., Canmore	2	33	52,600	.92
Canmore Coal Co. Ltd., Canmore	5	34	46,059	.80
Canmore Coal Co. Ltd., Canmore	4	35	46,357	.81
Canmore Coal Mining Co. Ltd., Canmore	3	36	45,600	.79
Canmore Coal Mining Co. Ltd., Canmore	1	37	44,453	.77
Canmore Coal Mining Co. Ltd., Canmore	2	38	43,842	.76
Canmore Coal Co. Ltd., Canmore	5	39	40,408	.70
Canmore Coal Co. Ltd., Canmore	1	40	39,413	.68
Canmore Coal Co. Ltd., Canmore	2	41	34,537	.60
Canmore Coal Co. Ltd., Canmore	4	42	33,944	.59
Canmore Coal Co. Ltd., Canmore	3	43	31,762	.55
Canmore Coal Co. Ltd., Canmore	2	44	30,408	.53
Canmore Coal Co. Ltd., Canmore	1	45	28,514	.49
Canmore Coal Co. Ltd., Canmore	4	46	27,268	.47
Canmore Coal Co. Ltd., Canmore	2	47	26,641	.46
Canmore Coal Co. Ltd., Canmore	1	48	24,580	.43
Canmore Coal Co. Ltd., Canmore	4	49	23,644	.41
Canmore Coal Co. Ltd., Canmore	1	50	22,032	.39
Canmore Coal Co. Ltd., Canmore	4	51	22,067	.39
Canmore Coal Co. Ltd., Canmore	3	52	21,905	.38
Canmore Coal Co. Ltd., Canmore	4	53	18,932	.33
Canmore Coal Co. Ltd., Canmore	4	54	18,629	.32
Canmore Coal Co. Ltd., Canmore	3	55	16,509	.29
Canmore Coal Co. Ltd., Canmore	3	56	16,461	.29
Canmore Coal Co. Ltd., Canmore	6	57	16,327	.28
Canmore Coal Co. Ltd., Canmore	4	58	16,972	.29
Canmore Coal Co. Ltd., Canmore	2	59	15,270	.26
Canmore Coal Co. Ltd., Canmore	2	60	14,641	.25
Canmore Coal Co. Ltd., Canmore	1	61	14,574	.25
Canmore Coal Co. Ltd., Canmore	2	62	14,340	.24
Canmore Coal Co. Ltd., Canmore	4	63	13,546	.23
Canmore Coal Co. Ltd., Canmore	4	64	12,752	.22
Canmore Coal Co. Ltd., Canmore	1	65	12,372	.21
Canmore Coal Co. Ltd., Canmore	4	66	10,848	.18
Canmore Coal Co. Ltd., Canmore	3	67	10,210	.17
Total (67)			5,774,570	
All other Operators (MCO)			187,946	
Total Alberta.			5,962,516	

Total Percentages for each District.

No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	MCO small Rivers not included
49.40%	12.76%	7.61%	10.90%	7.46%	4.25%	2.40%

Graph showing by percentages the production of the
Various Districts shown numbered as above
Total 5,972,816 Tons.

Percentages x 3.60 = Degrees



Authority
John McNeil, M.A.

Chief of the Division of Mineral Resources & Statistics
Mines Branch,
Department of Mines,
Ottawa.

It will be noticed that this report gives the total output as 5,972,516 tons for the calendar year.

The Mines Branch Report for the Province of Alberta gives an output of 5,140,520 tons. A difference of 175,804 tons or 3.4% of 5,972,516.

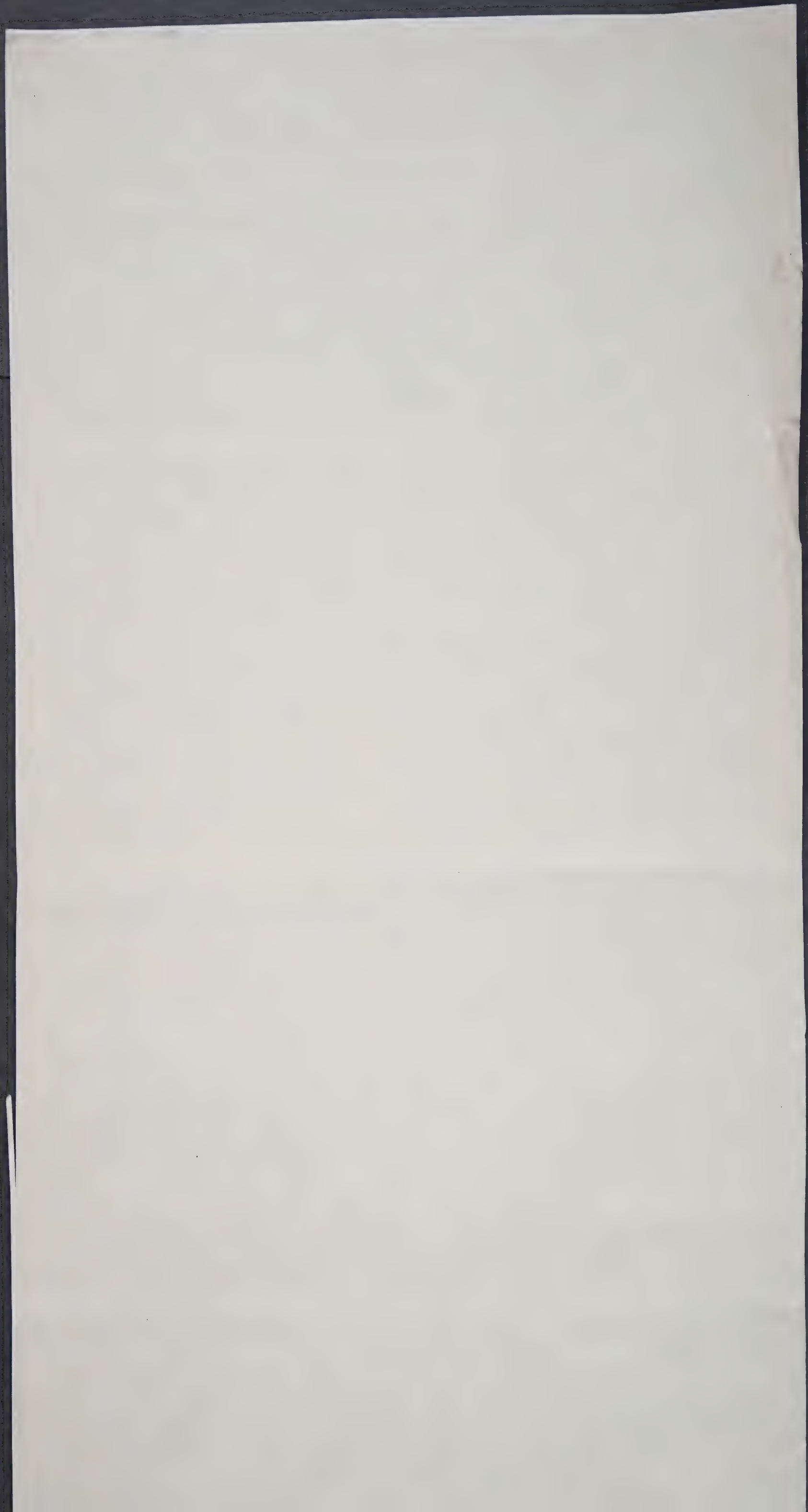
Division of Province into Districts:

Districts. Location of same.

1. Along the Main line of C.P.Ry. and South of it.
2. Along the Goose Lake Branch of the C.P.Ry.
3. Along the C.P.R. and C.T.R. and branches North of Goose Lake Branch and South of Main line of said Railways.
4. Along the Main line of C.T.R. and C.P.Ry.
5. Along the Mountain Park and South branches of C.T.R.
6. North of the Main line of C.P.Ry. and C.T.R.

Name of Company & Mine address	District.	Order of Production	Total Production	Personnage Total
Western Canadian Collieries Bellevue	1	1	434,852	7.28
Granite Collieries Ltd., Nordegg	5	2	356,516	5.95
Western Canadian Collieries, Greenhill	1	3	338,128	5.67
McMillen & Co. Ltd., Coleman	1	4	277,400	4.66
Canmore Coal Co. Ltd., Canmore	1	5	274,746	4.60
C.P.R. Collieries, Lethbridge	1	6	254,540	4.39
Millar Collieries Ltd., Millarville	1	7	253,450	4.36
International Coal & Coke Co. Ltd., Coleman	1	8	252,408	4.34
Lethbridge Colliery, Lethbridge (Mills)	1	9	250,428	4.30
Sine Diamond Coal Co., Ltd., Sine Mines	4	10	168,739	3.13
Mountain Park Coal Co., Ltd., Mountain Park	5	11	137,042	2.30
Canmore Coal Co., Ltd., Canmore	5	12	130,589	2.01
Canmore Mine, C.P.R.	1	13	115,401	1.93
Cardiff Collieries Ltd., Cardiff	4	14	110,517	1.84
Rockdale Coal & Clay Products Co., Rockdale	5	15	106,443	1.79
C.P.R. Collieries, Lethbridge	1	16	106,363	1.78
Chinook Coal Co., Ltd., Chinook	1	17	105,364	1.76
Canada West Coal Co., Ltd., Taber	1	18	103,429	1.73
Wm. Col. Ltd., Pembina Colliery, Evansburg	4	19	101,743	1.70
Rocky Mountain Coal Co. Ltd., Wayne	5	20	94,976	1.60
Hammerstone Coal Co., Beverly	4	21	94,942	1.60
Eastern Commercial Co. Ltd., Wayne	5	22	92,364	1.54
Alberta Stock Coal Co. Ltd., Drumheller	5	23	87,718	1.47
Pacific Power Colliery, Lovatville (B.A.)	5	24	81,968	1.37
Midland Collieries Ltd., Midlandville	5	25	77,923	1.30
Jasper Mine, Jasper Park Collieries	4	26	72,522	1.23
Alberta Coal Mining Co. Ltd., (The) Cardiff	4	27	72,195	1.20
Great West Coal Co. Ltd., (The) Clover Bar	4	28	71,600	1.19
Elphinstone Coal Co. Ltd., Elphinstone Mines	5	29	67,590	1.13
Twin City Coal Co. Ltd., Edmonton Co.	4	30	56,615	.96
Banner Coal Co., Ltd., Cardiff	4	31	56,640	.96
Rockdale Co. Ltd., Drumheller	5	32	54,057	.90
Rockdale Coal Co., Ltd., Drumheller	5	33	53,800	.89
Rockdale Coal Co., Ltd., Drumheller	5	34	48,059	.80
Great West Coal Co. Ltd., (The) Star Mine	4	35	46,867	.77
Atlas Coal Mining Co. Ltd., Drumheller	5	36	45,500	.76
Franklin Collieries Ltd., Frank	5	37	44,433	.74
Monarch Colliery, Drumheller (M.A.)	5	38	43,842	.73
Yellowhead Coal Co., Ltd., Coalgate	5	39	40,406	.67
Trust & Guarantee Co. Ltd., Diamond City Mine	1	40	39,413	.66
Premier Coal Co., Ltd., Drumheller	5	41	34,637	.58
Rockdale Coal Co. Ltd., Torfield	5	42	33,944	.57
Rockdale Coal Co. Ltd., (The) Torfield	5	43	31,782	.53
Big Valley Collieries, Big Valley	5	44	30,604	.50
Federal Coal Co., Lethbridge	1	45	28,614	.48
Wm. Col. Ltd., Beverly	4	46	27,368	.46
Granite Coal Co. Ltd., Drumheller	5	47	26,541	.44
Regal Collieries Ltd., Taber	1	48	24,680	.41
Miette Mine, Jasper Park Collieries	4	49	23,844	.39
Rock Springs Coal & Brick Co. Ltd., Sloan	1	50	22,033	.36
Rock Springs Coal & Brick Co. Ltd., Sloan	1	51	22,037	.36
Rock Springs Coal & Brick Co. Ltd., Sloan	1	52	21,984	.36
Rock Springs Coal & Brick Co. Ltd., Sloan	1	53	16,230	.27
Rock Springs Coal & Brick Co. Ltd., Sloan	1	54	16,229	.27
Rock Springs Coal & Brick Co. Ltd., Sloan	1	55	16,509	.28
Rock Springs Coal & Brick Co. Ltd., Sloan	1	56	16,451	.28
Rock Springs Coal & Brick Co. Ltd., Sloan	1	57	16,527	.28
Rock Springs Coal & Brick Co. Ltd., Sloan	1	58	15,972	.27
Rock Springs Coal & Brick Co. Ltd., Sloan	1	59	15,270	.26
Rock Springs Coal & Brick Co. Ltd., Sloan	1	60	14,641	.24
Rock Springs Coal & Brick Co. Ltd., Sloan	1	61	14,574	.24
Rock Springs Coal & Brick Co. Ltd., Sloan	1	62	14,340	.24
Rock Springs Coal & Brick Co. Ltd., Sloan	1	63	13,666	.23
Rock Springs Coal & Brick Co. Ltd., Sloan	1	64	12,768	.21
Rock Springs Coal & Brick Co. Ltd., Sloan	1	65	12,572	.21
Rock Springs Coal & Brick Co. Ltd., Sloan	1	66	10,843	.18
Rock Springs Coal & Brick Co. Ltd., Sloan	1	67	10,810	.17
Total (67)			5,774,870	
All other Operators (20)			197,646	
Total Alberta.			5,972,516	

Total percentages for each District.



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1918

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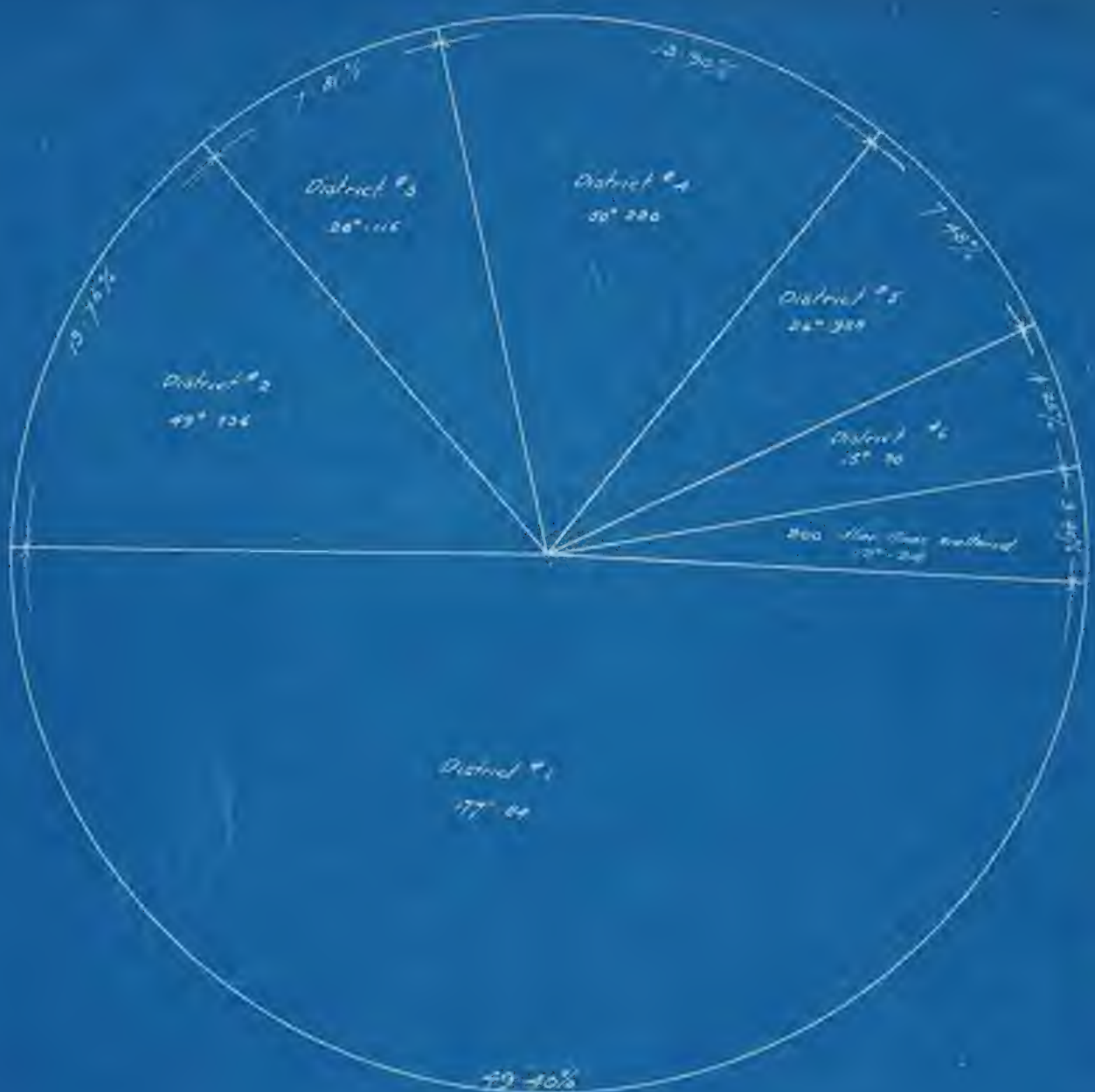
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1911

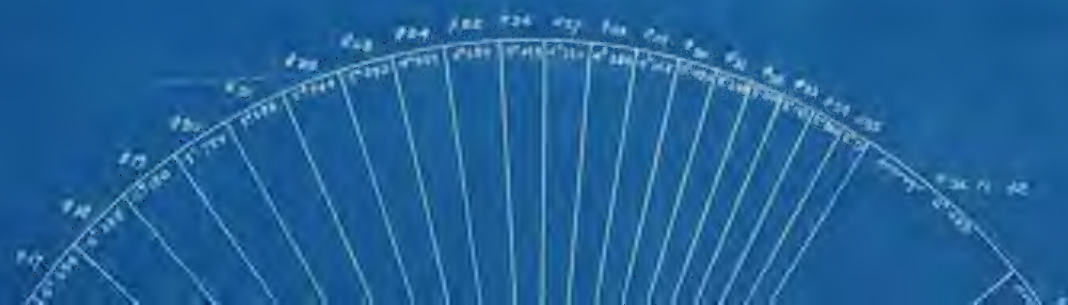
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3	10,000	10,000	10,000
4	10,000	10,000	10,000
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6	10,000	10,000	10,000
7	10,000	10,000	10,000
8	10,000	10,000	10,000
9	10,000	10,000	10,000
10	10,000	10,000	10,000
11	10,000	10,000	10,000
12	10,000	10,000	10,000
13	10,000	10,000	10,000
14	10,000	10,000	10,000
15	10,000	10,000	10,000
16	10,000	10,000	10,000
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37	10,000	10,000	10,000
38	10,000	10,000	10,000
39	10,000	10,000	10,000
40	10,000	10,000	10,000
41	10,000	10,000	10,000
42	10,000	10,000	10,000
43	10,000	10,000	10,000
44	10,000	10,000	10,000
45	10,000	10,000	10,000
46	10,000	10,000	10,000
47	10,000	10,000	10,000
48	10,000	10,000	10,000
49	10,000	10,000	10,000
50	10,000	10,000	10,000
51	10,000	10,000	10,000
52	10,000	10,000	10,000
53	10,000	10,000	10,000
54	10,000	10,000	10,000
55	10,000	10,000	10,000
56	10,000	10,000	10,000
57	10,000	10,000	10,000
58	10,000	10,000	10,000
59	10,000	10,000	10,000
60	10,000	10,000	10,000
61	10,000	10,000	10,000
62	10,000	10,000	10,000
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73	10,000	10,000	10,000
74	10,000	10,000	10,000
75	10,000	10,000	10,000
76	10,000	10,000	10,000
77	10,000	10,000	10,000
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79	10,000	10,000	10,000
80	10,000	10,000	10,000
81	10,000	10,000	10,000
82	10,000	10,000	10,000
83	10,000	10,000	10,000
84	10,000	10,000	10,000
85	10,000	10,000	10,000
86	10,000	10,000	10,000
87	10,000	10,000	10,000
88	10,000	10,000	10,000
89	10,000	10,000	10,000
90	10,000	10,000	10,000
91	10,000	10,000	10,000
92	10,000	10,000	10,000
93	10,000	10,000	10,000
94	10,000	10,000	10,000
95	10,000	10,000	10,000
96	10,000	10,000	10,000
97	10,000	10,000	10,000
98	10,000	10,000	10,000
99	10,000	10,000	10,000
100	10,000	10,000	10,000

No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	No. 7	No. 8
48.40%	10.96%	7.81%	10.90%	7.40%	4.87%	2.40%	2.40%

Graph showing by percentages the production of the Various Districts shown numbered as above.
Total. 5,972,816 Tons.
Degrees = 3.60 = Percentages



Graph showing by Degrees which represent the percentages of the Output of the various Mines listed above and numbered in order of Production.
Total. 5,972,816 Tons
Degrees = 3.60 = Percentages

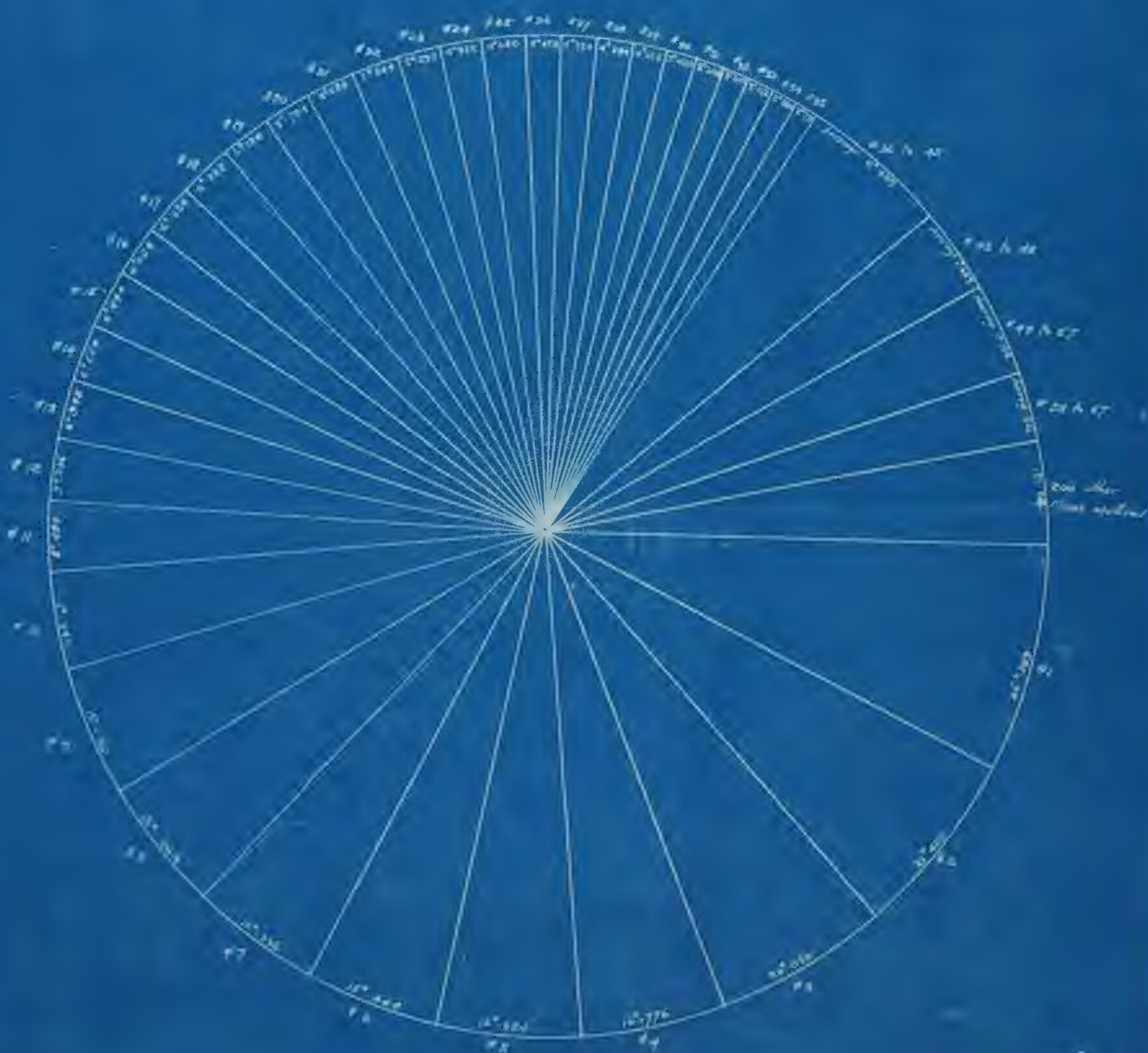




Graph showing by Degrees which represent the percentages of the Output of the various Mines listed above and numbered in order of Production.

Total: 5,972,816 Tons

Degrees $\times 3.60$ = Percentages





N^o 53 Pt 2,

Coal
the notes
about

N^o 50 Pt 2

1250 1842

		GRAPH NO
ANALYSES	Coal	1
ANTHRACITE	Production of	26 & 14
"	Utilization of	7
BITUMINOUS	Total Output of by fields	3 & 10
"	Utilization of Total Output	7
"	Total Output by Districts	15
"	Production and Utilization by Districts	22, 23, 24 & 25
COAL	Analyses of	1
"	Fields (See Ground Map) also	1
"	Districts (Division of Province into)	12
"	Anthracite see same	
"	Bituminous " "	
"	Domestic " "	
"	Lignite " Domestic	
"	Production of by Fields	1, 4 & 11
"	" " Districts	8 & 13
Destination	of Total Output	21A
Domestic Coal	Production of by fields	2 & 9
"	" " Districts	16, 17, 18, 19, 20
"	Total Output of by Districts	21
"	Utilization of Total Output	5
"	" " Output by Districts	16, 17, 18, 19, 20
Districts	Division of Province into	12
"	Total Production by	8 & 13
"	Domestic Production by	16, 17, 18, 19, 20, 21
"	Utilization by	16, 17, 18, 19, 20

NO	FIELD	BUYOUT IN. TONS	5.5 PERCENT EXTRACT	M	V	T	A	B.T.U.	Arden
1	Milk River	6,848	114						
2	Magrath	1,627	124	3.0	38.0	4.75	11.35	11.27	C
3	Pincher Creek	3,955	104.5	3.8	28.96	38.0	28.27	3.81	C
4	Crows Nest Pass	1,601,864	26,035.0	4.77	26.1	36.41	16.42	12.41	C
5	Leithbridge	557,092	15,940.0	7.9	34.54	47.43	10.15	11.20	C
6	Taber	183,485	2,984.0	11.7	31.79	44.76	12.45	11.20	C
7	Bow Island	7,283	118.4	17.26	30.90	46.27	5.57	9.29	E
8	Medicine Hat	10,028	3,095	19.06	33.07	42.35	5.57	8.52	E
9	Aldersyde	8,069	151.2	10.37	32.00	50.84	6.78	10.19	G
10	Brooks	9,783	159.1	11.45	34.74	45.05	8.80	9.26	E
11	High River	570	1,093	2.33	35.27	56.53	5.87		
12	Canmore	2,470.9	4,467.5	1.02	13.41	82.02	3.62		E
13	Banff	151,225	2,134.5	0.6	13.75	77.34	13.35	13.46	C
14	Drumheller	881,081	14,386.0	16.5	39.5	43.4	6.5	8.60	D
15	Hanna	29,333	1,800						E
16	Carbon	5,431	1,088.5	11.57	35.64	40.25	7.79		E
17	Three Hills	30,150	4,904	11.70	50.75	57.35	6.2		G
18	Big Valley	34,718	5,846	17.26	50.90	5.37	9.29		E
19	Trichu	18,245	2,948	2.5	32.1	48.3	6.4	10.01	G
20	Locombe	15,701	2,472	1.47	31.17	47.01	12.10	8.17	G
21	Battle River	12,703	1,984	13.0	37.5	44.38	6.64	9.14	G
22	Brozeau	371,262	6,040.0	31	17.53	61.35	3.61	13.35	G
23	Mountain Park	256,263	4,153.0	3.2	50.5	62.0	4.3	14.70	G
24	Yellowhead Pass	195,972	3,187.5	2.5	18.5	57.8	21.4	11.50	S
25	Jasper Park	263,342	4,608.0	2.3	18.5	57.8	21.4	11.50	G
26	Camrose	56,597	1,250	16.8	31.72	49.15	13.35	9.61	G
27	Topfield	56,054	1,074.2	25.0	21.8	36.7	8.5	7.50	D
28	Clover Bar	264,868	4,307.5						
29	Edmonton	104,756	1,736.4	18.97	32.61	40.18	8.25	11.00	C
30	Namsu	21,660	3,578						
31	Cardiff	266,142	4,329.0	20.0	51.6	40.4	8.6	8.77	D
32	Wabamun	19,250	3,151	16.4	31.52	45.29	6.9	9.20	G
33	Pembina	109,429	1,780.0	17.6	3.72	43.45	9.35	9.14	D

C. Mc Gill University, Investigations by Porter, Duxter, 1918-1919
D. Mines Branch 119 331-1915
E. Memoir 53, No 44, Geo. Surv. D.B. Dowling 1914
G. Various Sources believed by Compiler to be fairly correct.

M. MOISTURE
V. VOLATILE COMBUSTIBLE
F. FIXED CARBON

A. A.S.N.
B.T.U. BRITISH THERMAL UNITS.

NOTE It is probable that because of the system adopted in securing and forwarding samples to where the analyses is made from 10 to 25% of the above moisture content should be added thereto. The higher the said moisture content the greater the percentage that should be added.

In the case of the ash content from 2% to 5% on the hundred per cent. should be added.

When this is done then a correction will be necessary in the case of volatile and fixed carbon said correction to be proportional to the amount given in the analyses.

LOCATION

See table COAL ANALYSES for quality
and Quantity Mined
Coal Fields shown to

AL ANALYSES

Field No.	% of Domestic Tonnage	M	V	F	A	BTU	Remarks
48	104						
47	1024	3.2	28.0	9.25	11.35	11,857	E
53	10443	3.8	28.96	38.47	28.97	9,810	C
54	25,0550	4.17	26.1	36.41	16.82	12,410	C
92	13,9400	1.9	34.54	47.43	10.13	11,710	C
55	2,9840	11.7	31.79	44.46	12.45	11,040	C
53	1184	17.26	30.90	46.27	5.47	9,228	E
28	3095	19.06	33.07	42.35	5.31	8,833	E
63	4312	10.37	32.00	50.84	6.78	10,109	G
63	11591	11.43	34.74	45.03	8.80	9,356	E
70	0093	7.33	35.27	56.23	5.97		E
09	4,4675	1.02	13.41	82.02	3.62		E
25	2,1345	0.6	13.75	77.34	0.35	13,640	C
81	14,3800	16.5	35.6	43.4	6.5	9,680	D
53	1,800						E
31	10883	11.57	35.44	43.21	7.70		E
50	4,304	11.70	30.73	51.35	6.2		G
5	5646	17.26	30.90	5.37	9.23		E
48	2,968	2.2	32.1	49.3	6.4	10,102	G
01	2,472	14.7	31.17	42.03	12.10	8,74	G
03	1,384	13.6	33.75	46.35	6.66	9,744	G
62	4,0430	5.1	17.53	61.35	13.61	13,105	G
63	4,1590	3.2	30.5	67.0	4.3	14,010	G
72	3,1875	2.3	18.5	57.8	21.4	11,383	G
42	4,6080	2.3	18.5	57.8	21.4	11,383	G
97	1,9250	16.8	31.22	45.13	6.35	9,761	G
54	1,0742	25.0	29.8	36.7	8.5	7,990	D
8	4,3075						
56	1,7364	18.97	32.61	40.18	8.28	11,000	C
60	3,523						
58	4,3290	20.0	31.6	40.4	8.0	8,774	D
50	5,151	16.4	31.32	45.15	6.3	12,234	G
29	1,7800	17.6	2.72	43.15	9.35	11,661	D

COAL STATISTICS 1918. CANADIAN PACIFIC RAILWAY COMPANY COLONIZATION AND DEVELOPMENT BRANCH MAP OF ALBERTA

NOTE.
What is classed as DOMESTIC was heretofore classed as LIGHT.
For Class of Coal from each field note Coal ANALYSES.

COMPILED BY
W. PEARCE
CALGARY, 15th MARCH 1920.
GRAPH NO. 50.

This Coal Statistics map was prepared by the Mines Branch of the Colonization and Development Branch of the Canadian Pacific Railway Company for 1918 was not received till the 20th February 1920.

W. PEARCE.

Investigations by Pearce District, 1918-1919.
No. 331-2/1915.
A. Geo. Surv. O. B. D. 1914.
Believed by Company to be fairly correct.
A. Geo. Surv. O. B. D. 1914.
B.T.O. 1914-1915.

system adopted
to where the
75% of the above
and there. The
the greater
from 25-50
be added.
section will be
tile and fixed
proportional to
analyses.

INDICATING LOCATION OF COAL FIELDS

See table COAL ANALYSES for quality in each field
and Quantity Mined in 1918.

Coal Fields shown thus: (22)



1.5 in. = 320,000 Tons.

% OF DOMESTIC TONNAGE
TOTAL OUTPUT FOR YEAR 3,035,061 Tons



% OF BITUMINOUS
TOTAL OUTPUT FOR YEAR



No.	NAME OF FIELD	TONNAGE	% OF DOMESTIC TONNAGE	No. OF FIELDS	% OF DOMESTIC TONNAGE
1	Drumheller	881,081	29.0320	14	2
2	Lethbridge	857,092	28.2400	5	1
3	Cardiff	266,142	8.7690	31	6
4	Clover Bar	264,868	8.7260	28	4
5	Taber	183,485	6.0462	6	1
6	Pembina	109,429	3.6055	33	4
7	Edmonton	106,756	3.5175	29	4
8	Tofield	66,054	2.1760	27	3
	Camrose	56,597	1.8645	26	3
	Big Valley	34,718	1.1438	18	3
	Three Hills	30,150	.9934	17	3
9	Hanna	29,533	.9750	15	2
	Namoo	21,660	.7136	30	6
	Wabamun	19,250	.6342	32	4
	Medicine Hat	19,028	.6270	8	1
	Trach	18,248	.6012	19	3
	Lacombe	15,201	.5008	20	3
	Battle River	12,203	.4020	21	3
	Aldersyde	8,069	.2658	9	1
	Bow Island	7,283	.2400	7	1
10	Milk River	6,848	.2256	1	1
	Carbon	5,431	.1789	16	3
	Brooks	5,785	.1923	10	1
	Pincher Creek	3,955	.1303	3	1
	Magrath	1,627	.0536	2	1
	High River	570	.0188	11	1

No.	NAME OF FIELD	TONNAGE	% OF DOMESTIC TONNAGE
1	Crow's Nest Pass	1,601,486	53
2	Brazee	371,562	12
3	Jasper Park	283,548	9
4	Canmore	274,709	9
5	Mountain Park	155,763	5
6	Yellowhead Pass	195,972	6

12 DIVISION OF PROVINCE

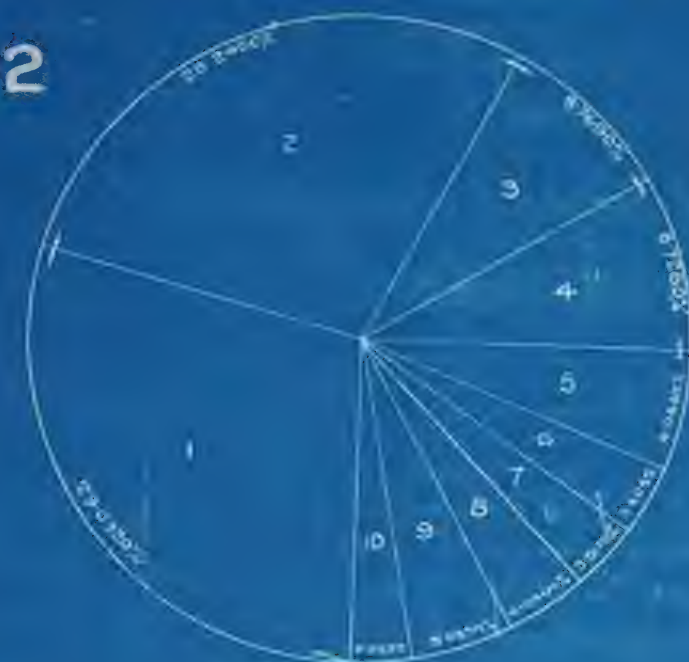
- 1 Along the Main Line of C.P.Ry. and
- 2 Along the GOOSE LAKE Branch of
- 3 Along the C.P.Ry. and G.T.P. and
- 4 of GOOSE LAKE Branch and S.W.
- 5 Along the Main Lines of G.T.P. and
- 6 Along the Mountain Park and South

13

DISTRICT	DOMESTIC	% OF DOMESTIC TONNAGE	% OF BITUMINOUS TONNAGE
1	36,170	62.91	17.85
2	30,000	100.00	14.81
3	7,868	12.46	3.88
4	16,482	9.50	8.14
5	3,480	15.13	4.68
6	100,000	100.00	43.56

PRODUCTION & UTILIZATION

% OF DOMESTIC TONNAGE
TOTAL OUTPUT FOR YEAR 3,035,061 Tons



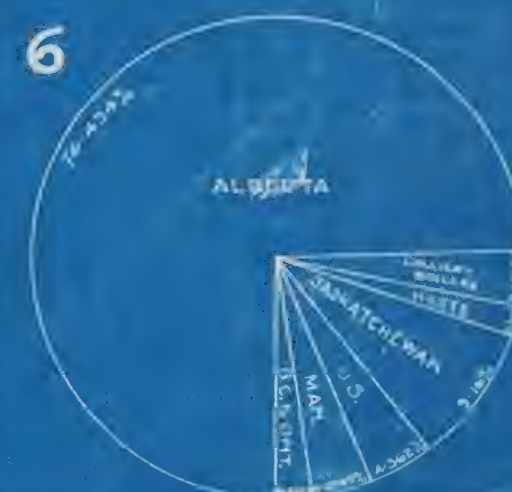
% OF BITUMINOUS TONNAGE
TOTAL OUTPUT FOR YEAR 2,982,334 Tons



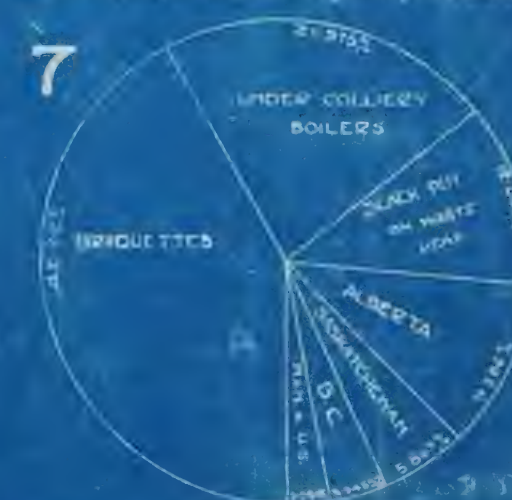
% OF TOTAL TONNAGE
TOTAL OUTPUT FOR YEAR 6,148,620 Tons



UTILIZATION OF DOMESTIC OUTPUT
Total Output for Year (including Slack) 3,035,061 Tons



UTILIZATION OF BITUMINOUS OUTPUT
Total Output for Year (including Slack) 2,982,334 Tons



UTILIZATION OF ANTHRACITE OUTPUT
Total Output for Year (including Slack) 131,225 Tons

TOTAL PROVINCIAL OUTPUT 6,148,620 Tons

NO. OF COAL	NAME OF FIELD	TONNAGE	% OF DOMESTIC TONNAGE	MT. OF FIELD AS PER MAP	MT. OF DISTRICT
1	Drumheller	881,081	29.0320	14	2
2	Lethbridge	857,092	28.2400	5	1
3	Cardiff	266,142	8.7690	31	6
4	Clover Bar	264,868	8.7260	28	4
5	Taber	185,485	6.0462	6	1
6	Pembina	100,429	3.3055	33	4
7	Edmonton	106,756	3.5175	29	4
8	Tofield	66,054	2.1760	27	3
9	Camrose	56,597	1.8645	26	3
	Big Valley	34,718	1.1438	18	3
	Three Hills	30,150	.9934	17	3
	Hanna	29,533	.9730	15	2
	Mountain Park	21,660	.7136	30	6
	Wabamun	19,250	.6342	32	4
	Medicine Hat	19,028	.6270	8	1
	Trochu	18,248	.6012	12	3
	Lacombe	15,201	.5008	20	3
	Battle River	12,203	.4020	21	3
	Aldersyde	8,065	.2658	9	1
	Bow Island	7,283	.2400	7	1
	Milk River	6,848	.2256	1	1
	Carbon	5,431	.1789	16	3
	Brooks	5,783	.1905	10	1
	Pincher Creek	3,955	.1303	3	1
	Magrath	1,627	.0536	2	1
	High River	570	.0188	11	1

NO. OF COAL	NAME OF FIELD	TONNAGE	% OF BITUMINOUS TONNAGE	MT. OF FIELD AS PER MAP	MT. OF DISTRICT
1	Crow's Nest Pass	1,601,486	53.7000	47	1
2	Brazeau	371,562	12.4596	22	3
3	Jasper Park	283,342	9.5010	25	4
4	Canmore	274,709	9.2110	12	1
5	Mountain Park	255,243	8.5590	23	5
6	Yellowhead Pass	195,972	6.5700	24	5

NO. OF COAL	NAME OF FIELD	% OF WHOLE	MT. OF FIELD AS PER MAP	MT. OF DISTRICT
1	Drumheller	14.5500	14	2
2	Lethbridge	13.9400	5	1
3	Cardiff	4.3290	31	6
4	Clover Bar	4.3075	28	4
5	Taber	2.9840	6	1
6	Pembina	1.7800	33	4
7	Edmonton	1.7364	29	4
8	Tofield	1.0742	27	4
9	Camrose	.9250	26	3
10	Big Valley	.5646	18	3
11	Three Hills	.4904	17	3
12	Hanna	.4800	15	2
13	Mountain Park	.3523	30	6
14	Wabamun	.3131	32	4
15	Medicine Hat	.3035	8	1
16	Trochu	.2968	19	3
17	Lacombe	.2472	20	3
18	Battle River	.1984	21	3
19	Aldersyde	.1312	9	1
20	Bow Island	.1184	7	1
21	Milk River	.1114	1	1
22	Carbon	.0883	6	1
23	Brooks	.1591	10	1
24	Pincher Creek	.0643	3	1
25	Magrath	.0264	2	1
26	High River	.0093	11	1
27	Crow's Nest Pass	26.0550	47	1
28	Brazeau	6.2430	22	3
29	Jasper Park	4.6080	25	4
30	Canmore	4.4675	12	1
31	Mountain Park	4.1530	23	5
32	Yellowhead Pass	3.1875	24	5
33	Banff	2.1345	13	1

12 DIVISION OF PROVINCE INTO DISTRICTS.

- DISTRICTS.
- 1 Along the Main Line of C.P.Ry. and South of it.
 - 2 Along the GOOSE LAKE Branch of the C.N.Ry.
 - 3 Along the C.N.Ry. and G.T.P. and Branches North of GOOSE LAKE Branch and South of Main Line.
 - 4 Along the Main Lines of G.T.P. and C.N.Ry.
 - 5 Along the MOUNTAIN PARK and South Branches of G.T.P.
 - 6 North of the Main Lines of C.N.Ry. and G.T.P.

13

DISTRICT	DOMESTIC		% OF WHOLE		% OF WHOLE BY DISTRICT	
	DOMESTIC	BITUMINOUS	DOMESTIC	BITUMINOUS		
1	36.170	62.91	17.85	30.516	2.134	50.50
2	30.000		14.81			14.81
3	7.868	12.46	3.88	6.040		9.92
4	16.482	9.50	8.14	4.610		12.75
5		15.13		7.340		7.34
6	3.480		4.68			4.68
	100.000	100.00	49.367	48.50%	2.134%	100.00%

PRODUCTION & UTILIZATION OF DOMESTIC COAL

BY DISTRICTS

Carbon					
Brooks	3,785	3,223	10	3	
Packer Creek	3,905	1,503	3	1	
Magrath	1,627	553	2	1	
High River	570	188	11	1	

13

DISTRICT	DOMESTIC	STANDARD	DOMESTIC	STANDARD	DOMESTIC	STANDARD
1	36,170	62,91	17,85	30,516	2,134	50,50
2	30,000		14,81			14,81
3	7,868	12,46	3,88	6,040		9,92
4	14,482	9,50	8,14	4,610		12,75
5		15,13		7,340		7,34
6	3,480		4,68			4,68
	100,000	100,00%	49,36%	48,50%	2,134%	100,00%

8	High River	5,895	11	1	
9	Crowsnest Pass	6,050	12	3	
10	Jasper Park	4,600	25	4	
11	Canmore	4,467	12	1	
12	Mountain Park	4,150	25	5	
13	Yellowhead Pass	3,185	24	5	
14	Banff	2,134	13	1	

Is not Yellowhead Pass largely if not wholly Domestic (Lignite)?

UTILIZATION OF ANTHRACITE OUTPUT.
Total Output for Year (including stock), 131,225 Tons.

TOTAL PROVINCIAL OUTPUT 6,148,620 Tons.

PRODUCTION & UTILIZATION OF DOMESTIC COAL

BY DISTRICTS

UTILIZED AS PER DIAGRAMS.

DISTRICT No. 1.
Total Output 1,097,740 Tons 100%DISTRICT No. 2.
Total Output 310,614 Tons 100%DISTRICT No. 3.
Total Output 238,602 Tons 100%DISTRICT No. 4.
Total Output 100,000 Tons 100%DISTRICT No. 6.
Total Output 287,602 Tons 100%

PRODUCTION & UTILIZATION OF BITUMINOUS COAL

BY DISTRICTS.

UTILIZED AS PER DIAGRAMS.

DISTRICT No. 1.
Total Output 187,615 Tons 100%DISTRICT No. 3.
Total Output 371,562 Tons 100%DISTRICT No. 4.
Total Output 183,342 Tons 100%DISTRICT No. 5.
Total Output 402,235 Tons 100%DISTRICT No. 1.
Total Output 131,225 Tons 100%

PRODUCTION AND UTILIZATION OF ANTHRACITE COAL

given in the analyses.

10	Milk River	6,848	2256	1	1
	Carbon	5,451	1789	16	3
	Brooks	9,783	3223	10	1
	Pincher Creek	3,955	1303	3	1
	Magrath	1,627	556	2	1
	High River	570	188	11	1

13

District	Domestic	Export
1	36,179	62,422
2	30,000	12,422
3	7,868	9,422
4	16,482	15,422
5	3,460	15,422
6	100,000	100,000

PRODUCTION

14

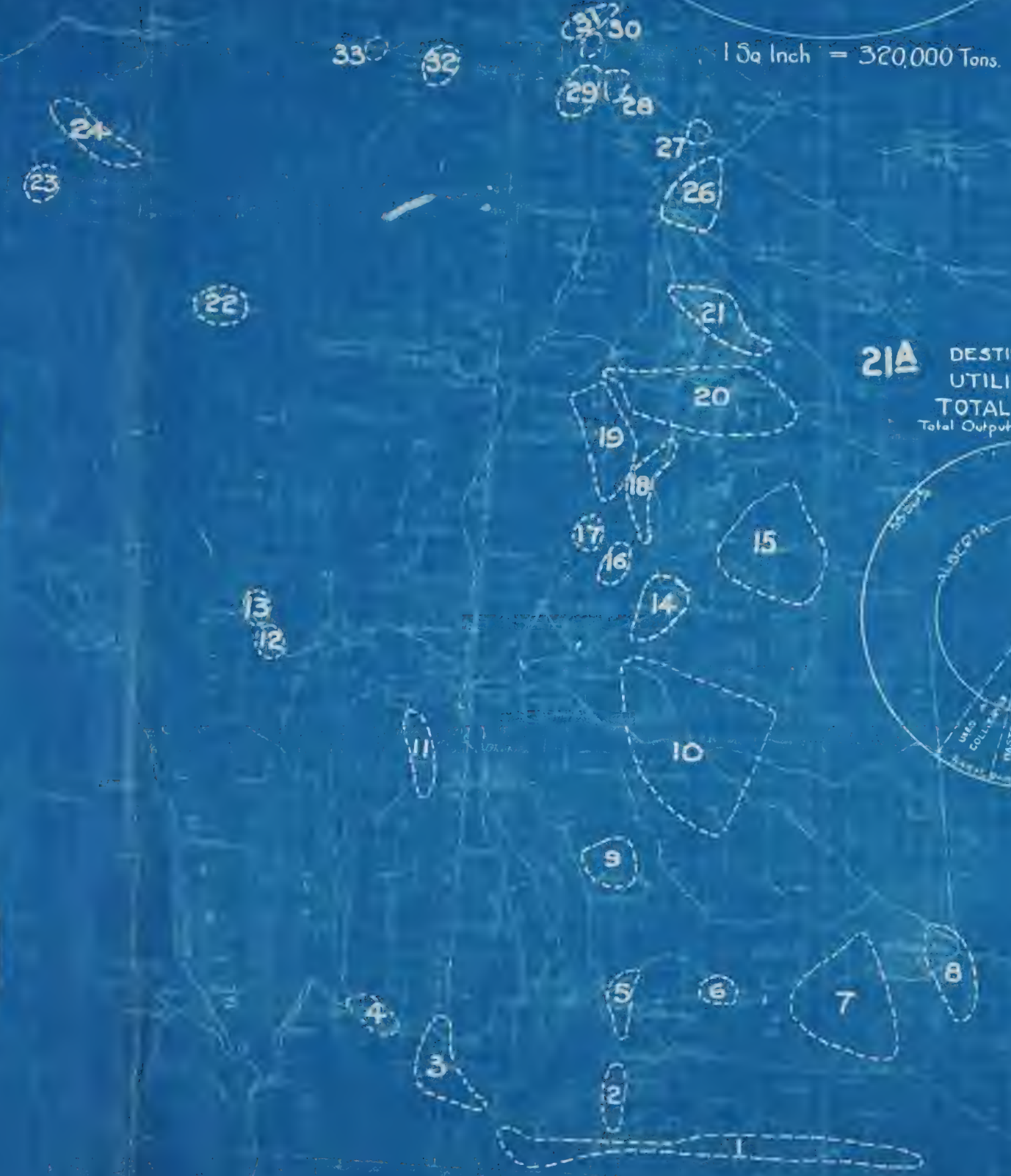
1 Sq. Inch = 320,000 Tons.



1 Sq. Inch = 320,000 Tons.



1 Sq. Inch = 320,000 Tons.



21A DESTINATION UTILIZATION
TOTAL OUTPUT
Total Output 6,148,620 Tons. 100%



16

DISTRICT NO. 1.
Total Output 1,097,740 Tons. 100%



17

DISTRICT NO. 2.
Total Output 310,614 Tons. 100%



PRODUCTION & UTILIZATION

BY DISTRICT
UTILIZED AS

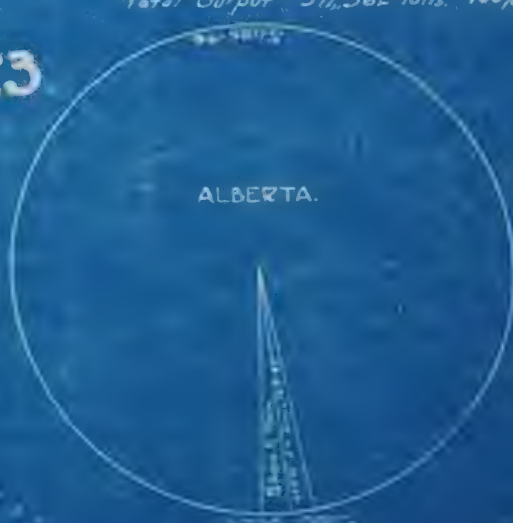
DISTRICT NO. 1
Total Output 1,876,195 Tons. 100%

22



23

DISTRICT NO. 3.
Total Output 371,562 Tons. 100%



	Lignite	- Domestic	
	Production of by Fields	1,4 & 11	
	" " Districts	8 & 13	
	of Total Output	21A	
Destination	Production of by fields	2 & 9	
Domestic Coal	" " Districts	16, 17, 18, 19, 20	
	Total Output of by Districts	21	
	Utilization of Total Output	5	
	" " Output by Districts	16, 17, 18, 19, 20	
Districts	Division of Province into	12	
	Total Production by	8 & 13	
	Domestic Production by	16, 17, 18, 19, 20, 21	
	" Utilization by	16, 17, 18, 19, 20	
	Bituminous Production by	15, 22, 23, 24, 25	
	" Utilization by	22, 23, 24, 25	
	Anthracite Production by	14 & 26	
	" Utilization by	7	
Fields	Coal (See Ground Map)	1	
Lignite	See Domestic		
Production	Total by Districts	8	
	" Fields	1, 4 & 11	
	Anthracite	14 & 26	
	Bituminous by Districts	15, 22 to 25	
	" Fields	3 & 10	
	Domestic by Districts	16 to 21	
	" Fields	2 & 9	
Utilization	of Total Output	21A	
	" Anthracite	7	
	" Bituminous	6	
	" " by Districts	22 to 25	
	" Domestic	5	
	" " by Districts	16 to 20	

NOTE.

A study of Nos 16, 17, 18, 19, and 20 illustrates the distribution for consumption, of the domestic or lignite coals from each of the six districts

Of Nos 22, 23, 24, 25 shows the same for Bituminous

No 5 shows that for the total output of Domestic

No 6 for Bituminous

No 21A for the total output of all classes combined

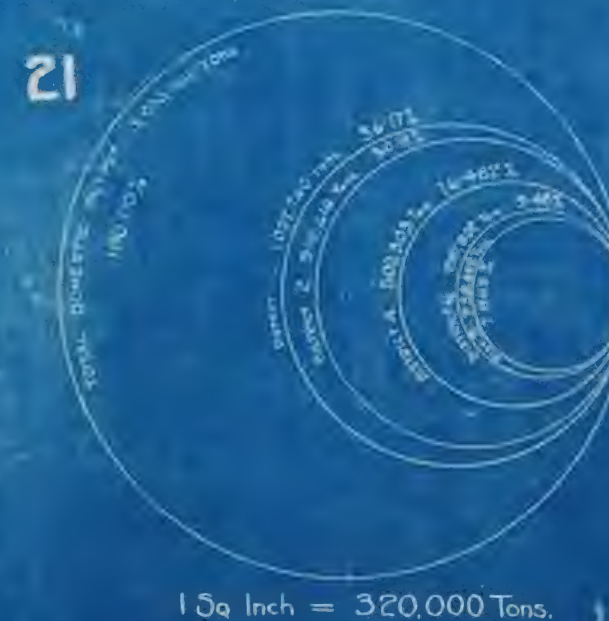
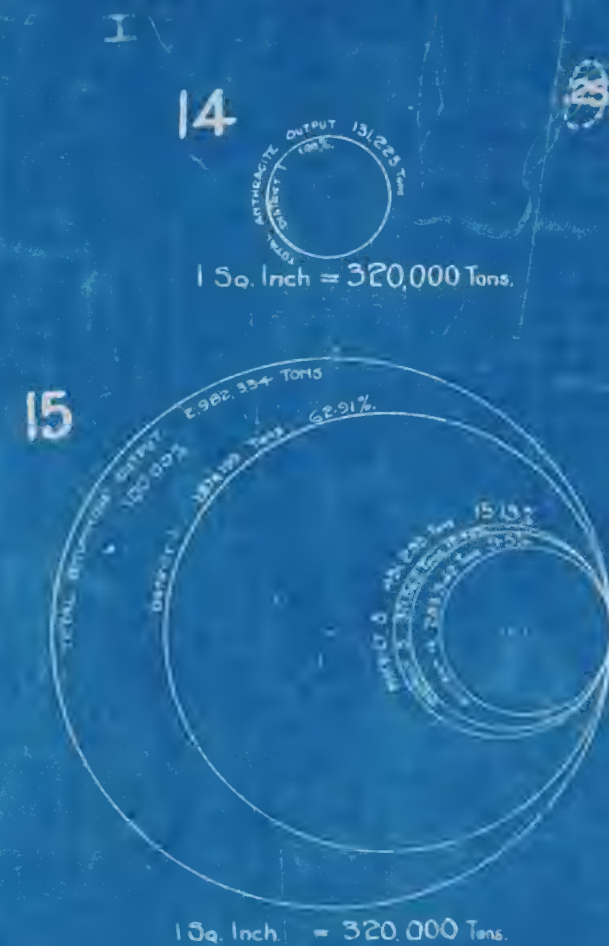
It is evident that Alberta coals are far from taking their desired position in the fuel consumption of the three Prairie Provinces

It is urged that the Coking of the Bituminous and the dehydration and briquetting of the lignites would aid very greatly in the extension of the consumption of Alberta coals, the coke to supplant American anthracite, the briquettes being practically without moisture, saving in transportation the high moisture content of lignites thus aiding storage without waste and also enabling the mines to be operated thruout the entire year probably also greatly reducing the cost of production and transportation.

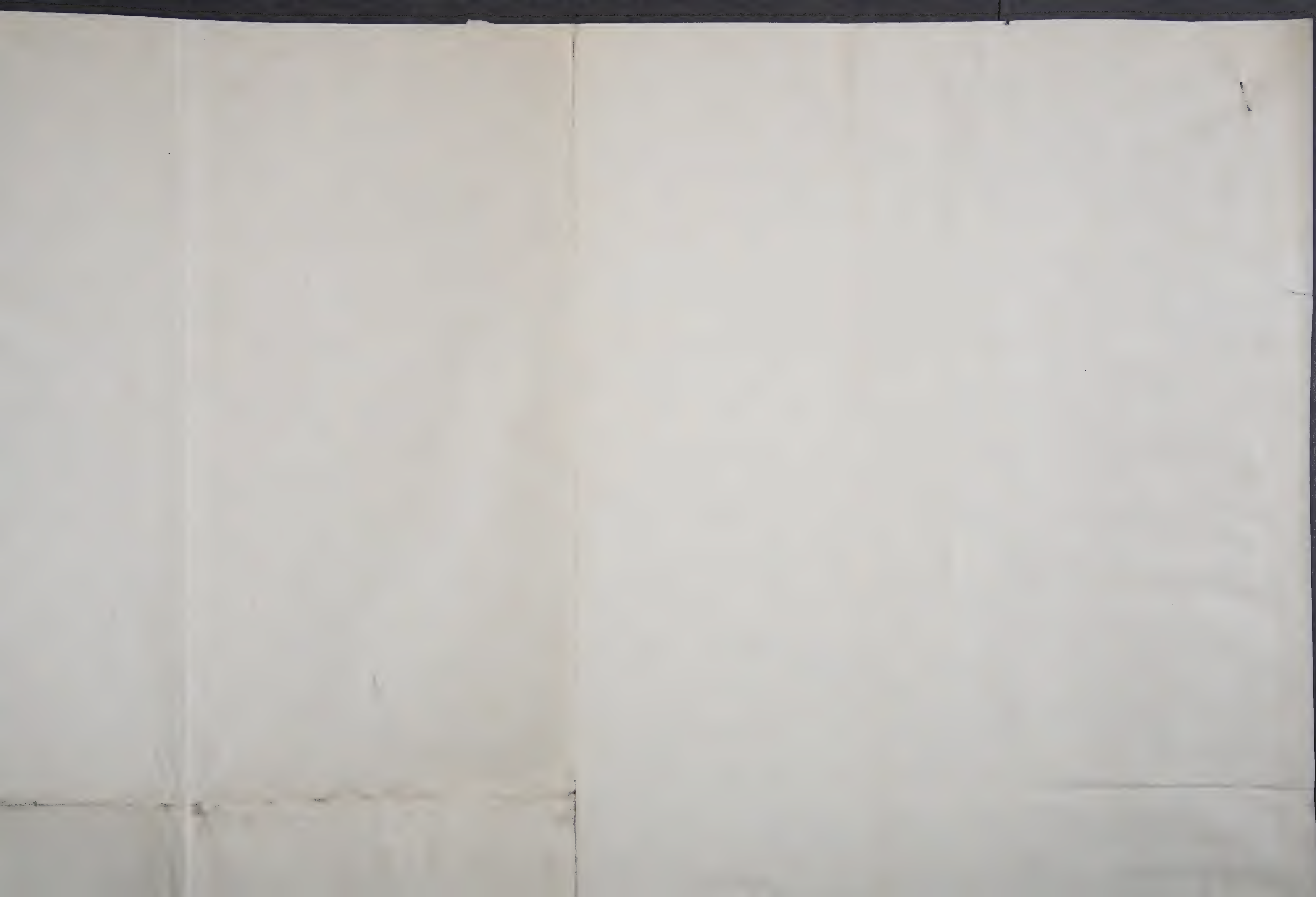
The exportation to U.S. points would also probably be vastly increased, when furnished in the shape of domestic coke and high grade briquettes

When this is done then a correction will be necessary in the case of Volatile and fixed carbon said correction to be proportional to the amount given in the analyses.

Coal Fields shown th







WPA 1974-169-2100-002-019

95

XX



No. as per Graph No. 51	Coal Field Area	Sq. Mi.	Seams Known	Thick- ness used in Estimates	Amount of coal developed	Probable Reserve Additional Tons
S. of Morely Sta- tion.						
Foothills East of Moose Mt.						
6A	Stony Reserve South	1	6 $\frac{1}{2}$ ft.	5 ft.		27,870,000
6	Mitford-Radnor	14	2 $\frac{1}{2}$ "	2 "		31,215,000
10 & 11	Elbow River	6	7 "	2 "		13,378,000
	Sheep Creek, S. Branch	6	7, 5, 6, 2, 4.	15 "		100,300,000
1	Bankhead:	3	5, 7, 13, 19, 9, 7, 2.	60 "	200,000,000	
2 & 3	Canmore to Bankhead (Pub. 949 p.19)	11	4 $\frac{1}{2}$, 5 $\frac{1}{2}$, 3, 5, 2-3, 5 4, 4, 7, 4, 2, 3.	25 "	50,000,000	124,000,000
3	Canmore to Three Sisters (Pub. 949 p.19)	2		38 "	57,000,000	
4	Marsh Mine Hill (Pub. 949 p.17)	3	2 $\frac{1}{2}$, 3, 3 $\frac{1}{2}$, 15, 10, 4. 4 $\frac{1}{2}$, 6, 3, 3 $\frac{1}{2}$, 2 $\frac{1}{2}$, 4, 8. 6, 7, 2, 4 $\frac{1}{2}$, 5.	106"		325,000,000
Kananaskis						
	about same as above	8		100"		890,000,000
Kananaskis Divide						
5, 7, & 8.		3 $\frac{1}{2}$	4, 4 $\frac{1}{2}$, 4, 4 $\frac{1}{2}$, 4 $\frac{1}{2}$, 7, 7. 9, 15, 12, 4, 4, 9, 10. 4, 9.	80"		97,000,000
Kananaskis River						
		2 $\frac{1}{2}$	4, 4 $\frac{1}{2}$, 4, 7, 7, 9, 15	50"		68,000,000
Kananaskis Watershed						
		9		12		90,000,000
6	Moose Mt. (Mem. 61, p.3.)	12		15		200,000,000
Livingstone Area:						
	Storm Creek	21		43		230,000,000
12	Mist Creek & Sheep R. (Sum. 1919 p.18c)	22				1,000,000,000
Highwood & Livingstone						
12A, 16, 17, 18 19, 20, 21, 22.	Group 11 -, Livingstone	300				25,000,000,000
		70				5,000,000,000
25	Coleman	30	16, 10, 8, 4	38	1,000,000,000	
Group 11 -, Coleman						
		6		38		2,000,000
26	Blairmore		10, 17, 3'6", 17, 6	57		
27 & 28	Bellevue	90	9, 17, 4'7", 15, 4 3, 4	50	4,500,000,000	
Group 11, - Blairmore Bellevue						
		10		50		5,000,000,000
Head of S. Fork Claman River:						
33 & 35	West Kootenay Pass Hastings Ridge		Continuation of Coleman	19		
Long Mountain						
			21, 6, 18, 0, 0.	35		
32	Maverick Mountain			101		
	Canon Creek, Carbon Hill			20		
31	Beaver Mine		7'4", 2'6", 1'6"	11.4		
36	Christy Ridge	5	7 $\frac{1}{2}$, 4.	11		50,000,000
British Columbia						
38	Elk River, North of Michel Creek	3		8		46,000,000
39	North Michel Creek	1		6		6,000,000
40	Crown Mt. Area	4		65		120,000,000
41	McInnes Mt. Lewis R.	47		80		3,692,000,000
13, 13A, 14 & 15	Greenhills } Mt. Harpole } Aldridge Creek N.	60		97 (18L) (150)		5,900,000,000 3,177,000,000
Crownest:						
39, 40 & 41			13 seams less than 5' 5 seams over 5' 1 seam " 10' 1 " " 19' 1 " " 36' 2 " " 46'	100	22,595,200,000	
27 37	Corbin	16		216 130		18,000,000,000 1,750,000
9 miles S of Corbin	Townsite Flathead	1	8', 10' 16' 6.	40		44,590,000

28,403,950,000 69,434,353,000

NOTE: Excepting the first column the balance of the foregoing was furnished by the Geological Survey in March 1921 much of the data as furnished is merely an approximation. Very large areas not estimated, and therefore the probabilities Graph 51 are very considerably in excess of the amounts given in the above schedule. It will be observed that 12 c among

According to the report of the Twelfth International Geological Congress held in Canada in 1913 the total coal of Canada is 7,397,553 million metric tons. A metric ton is equivalent to 2204.62 lbs., or 1000 kilograms. A cubic metre equals 35.31 into four classes - A. B. C. & D. D., being Sub-bituminous, Brown Coals and Lignites A. B. & C., being Anthracitic or Bituminous

According to said report, see page XXXIII of Volume 1, the different portions of Canada contain the following

For the purposes of this discussion we will omit the Yukon, which contains of A. B. & C. 250 million tons. Territories 4800 of D. and Arctic Islands 6000 of A.B. & C. The balance of Canada contains in quantities A. B. & C., 279, metric tons.

Province A. B. & C. D. Total

51A



WAA 1774-169-2100-002-020

COAL AREAS, WESTERN CANADA, AS PER GRAPH NO. 51.

GRAPH N° 51A To Be Attached To N° 51.

Seams Known	Thick- ness used in Estimates	Amount of coal developed	Probable Reserve Additional Tons	Character of Coal - Percentage of total			
				Anthracitic	Bituminous	Sub-bituminous	
				Non-coking Percent	Coking Percent	Non-coking Percent	Non-coking Percent
6' ft.	5 ft.		17,470,000		50%	50%	
2' "	2' "		31,215,000		60	20	20%
7' "	2' "		13,378,000		20	40	
7,5,6,2,4	15' "		100,300,000		40	40	20
5,7,13,19,9,7,1.	50' "	200,000,000		100			
4,11,1,8,1-3,5	25' "	50,000,000	124,000,000	60			
4,4,7,4,1,3	38' "	57,000,000		60	40		
2,3,3,15,10,4.	106' "		325,000,000	40	40		
4,6,3,3,1,4,9.							
6,7,14,5.	100' "		890,000,000	60	40		
About same as above	80' "		97,000,000	50	50		
4,4,4,4,4,7,7.							
9,15,14,4,4,9,10.							
4,9.							
4,4,4,7,7,9,15	30' "		68,000,000	20	60	30	
	14		90,000,000	20	60		
	15		100,000,000		60	20	
			230,000,000	50	50		
	43		1,000,000,000	50	50		
			25,000,000,000	40	60		
			5,000,000,000	70	70		
16,10,8,4	38	1,000,000,000			60	20	
	38		2,000,000	60	60		
10,17,3'6",17,6	47						
9,17,4'7",15,4	50	4,500,000,000			80	20	
3,6							
	50		5,000,000,000	20	80		
	19						
Continuation of Coleman							
21,6,18,0,0.	35						
	101						
	20						
7'4",2'6",1'6"	11.4						
7'4.	11		50,000,000		50	50	
	4		48,000,000		50	50	
	6		6,000,000		60	50	
	65		120,000,000		50	50	
	80		2,691,000,000		60	40	
	97		5,900,000,000		60	40	
	(184)						
	(150)		3,177,000,000				
13 seams less than 5'							
5 seams over 5'							
1 seam " 10'	100	11,895,000,000			60	40	
1 " " 19'							
1 " " 46'							
2 " " 46'							
	216		10,000,000,000		60	40	
	130	1,750,000			10	90	
10' 16' 6.	40		44,590,000		30	70	

28,403,950,000 69,434,353,000

ence of the foregoing was furnished by the Geological Survey in March 1921. It will be observed from the foregoing that
ination. Very large areas not estimated, and therefore the probabilities are that the totals within the area covered by
amounts given in the above schedule. It will be observed that 12 c among others not enumerated.

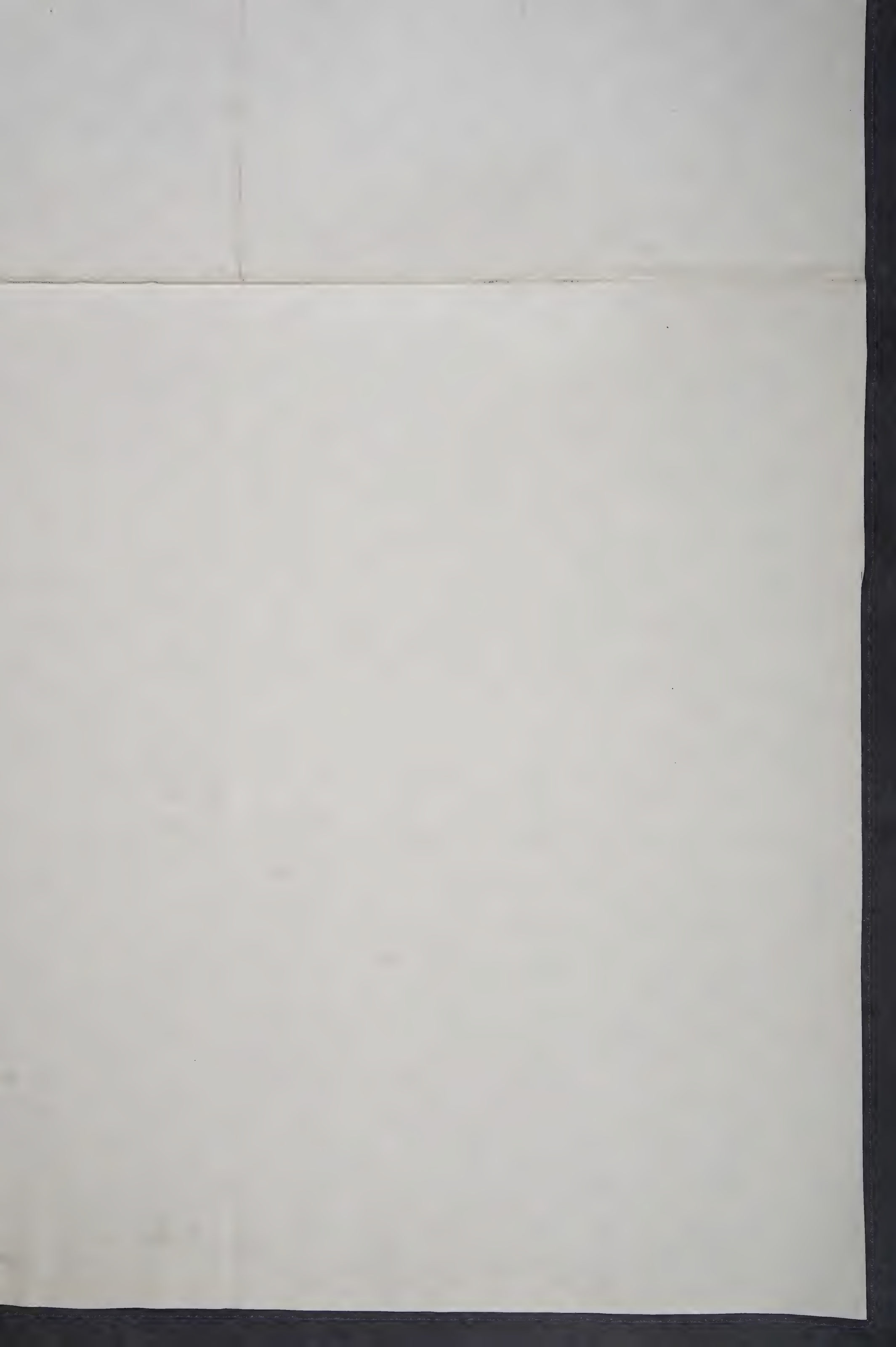
5th International Geological Congress held in Canada in 1913 the total Coal Resources of the world were estimated as
equivalent to 2104.64 lbs., or 1000 kilograms. A cubic metre equals 35,3145 cubic feet. The said report divides coals
bituminous, Brown Coals and Lignites A. B. & C., being Anthracitic or Bituminous.

XXXIII of Volume 1, the different portions of Canada contain the following amounts.

n we will omit the Yukon, which contains of A. B. & C. 250 million tons. Of D., 4690, together 4,940. The North-west
A.B. & C. The balance of Canada contains in qualities A. B. & C., 279,569 Million metric tons, and D., 938,960 million

51A

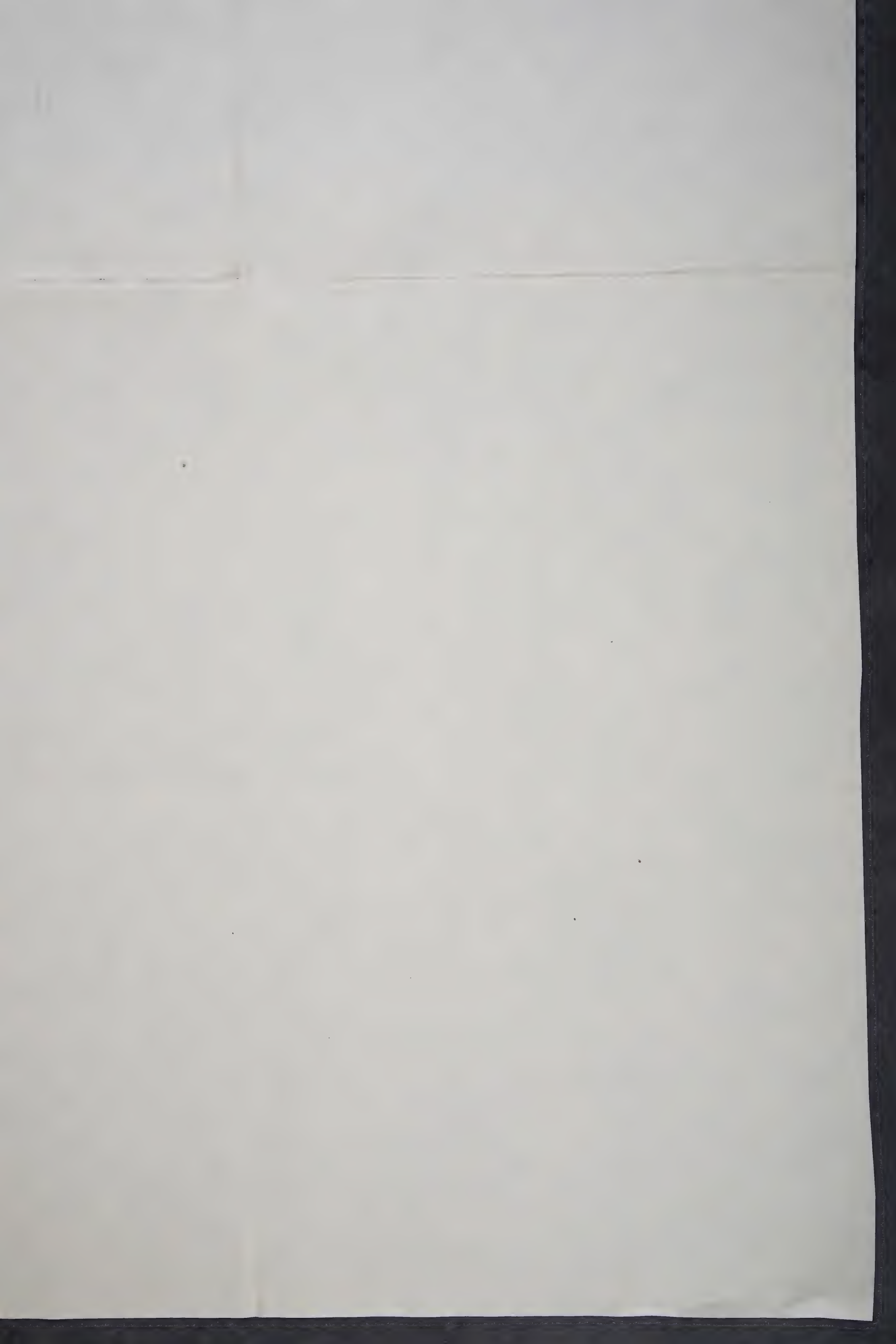
51A



51 H

51A





ANNUAL REPORT OF THE ALBERTA COAL BOARD FOR 1930.

Quarterly report of the Mining Branch of the Provincial Government.

Though Graph 59 probably reveals everything that is essential in the matter of the production and consumption of the coal of Alberta it may be that many have not had the time or the inclination to study it sufficiently to fully grasp its leading features. It has been thought well therefore to compile the following, which may be termed Graph 59-A, so as to emphasize clearly certain points.

One point it is thought should be clearly emphasized, namely from what fields are the coals that are consumed both in Alberta and also outside of it obtained, and to what extent do each of these fields contribute to that consumption; that requirement has been attempted to be met in this.

For the purpose of this compilation the coals have been placed in two classes, namely lignite, or as styled by the Provincial Government Anthracite, bituminous, and sub-bituminous, and with the divisions have been included the anthracite. The latter represents 1.9% of the total production of the Province.

BASED ON PRODUCTION.

The total production is 5,516,131 tons. Of that 3,337,018 tons were lignite, which represents 60.5% of the total production and of which 3,006,031 tons or 54.5% were sold.

Bituminous and Anthracite combined represent 21.4% of the total production or 1,179,113 tons of which 5,496,144 tons or 46.8% were sold.

It may be well to state just here that the figures given in this report are based on the production in this year and are not based on the total production.

GROUPS OF FIELDS.

There is a very considerable variation among the fields as to the amount of product obtained in Alberta. The following table shows the output of fields in which lignite is produced in 1930.

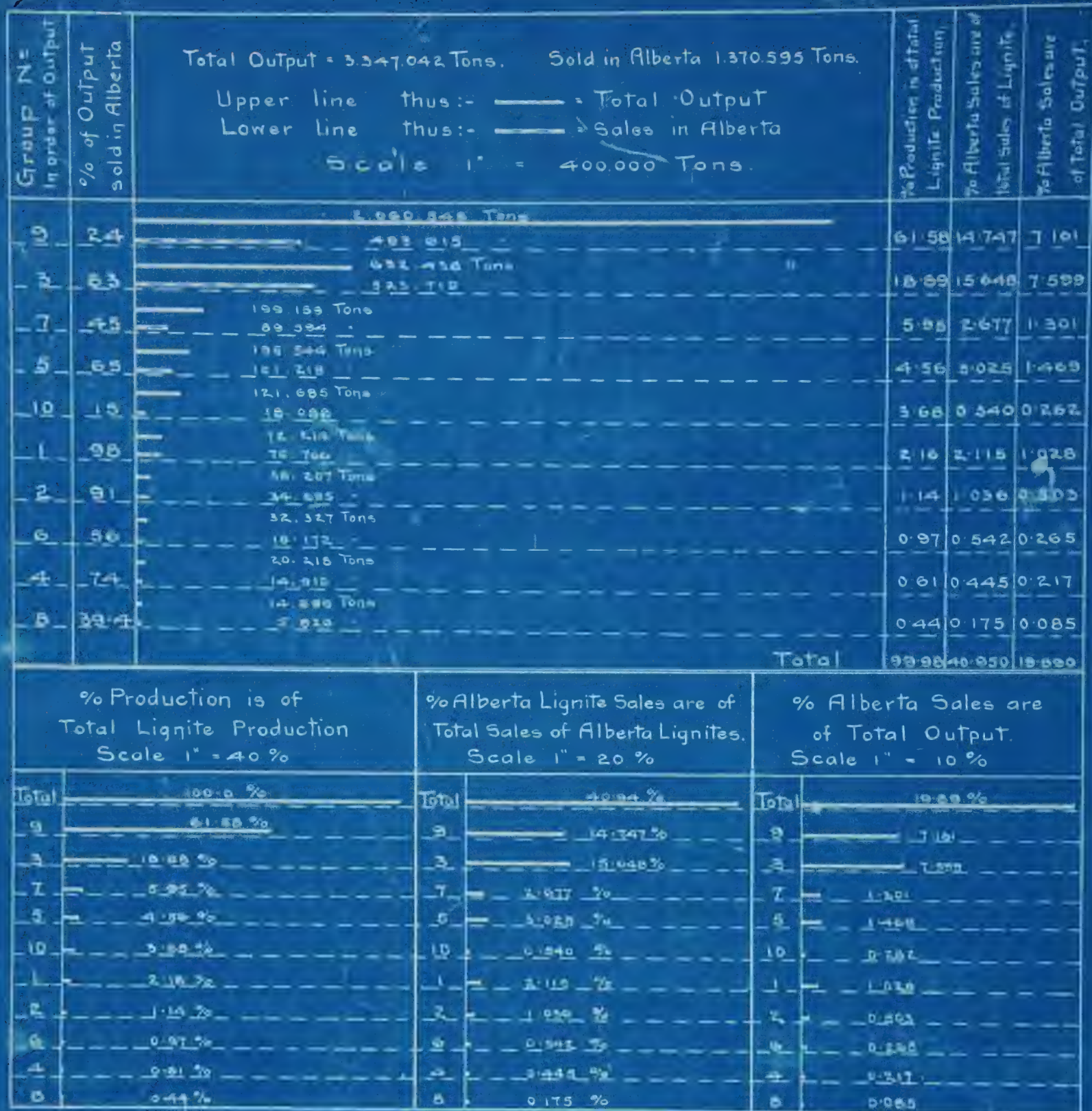
Group 1 - 1,000,000 tons or more	Group 7 - 100,000 to 200,000 tons
Group 2 - 500,000 to 1,000,000 tons	Group 8 - 50,000 to 100,000 tons
Group 3 - 250,000 to 500,000 tons	Group 9 - 25,000 to 50,000 tons
Group 4 - 100,000 to 250,000 tons	Group 10 - Under 25,000 tons
Group 5 - 50,000 to 100,000 tons	
Group 6 - 25,000 to 50,000 tons	

Group 1 embraces the following fields: Hill River, Macleod, Liner, Grail, and others, also, Brooks, High River, Lacombe, Little River and Lake River. - Ten.

- Group 2 - Hanna and Carbon. - Two.
- Group 3 - Sherwood, Edmonton, and others. - Four.
- Group 4 - Vauxhall. - One.
- Group 5 - Calgary, and others. - Three.
- Group 6 - Large fields. - Five.
- Group 7 - The Valley and others. - Two.
- Group 8 - Medicine Hat. - One.
- Group 9 - Lethbridge and others. - Two.
- Group 10 - Others. - One.

Diagram No. 1. showing Output & Sales by foregoing Groups.

For same data by individual fields see Graph No. 59.



The above is rather interesting. It will be noted that after those, the percentage of the output consumed in Alberta varies from 13. In the case of Taber to 98% in the case of the first group consisting of 10 fields.

The last three columns are worthy of sufficient study so the data shown is thoroughly understood.

As selling outside of Alberta appears to be the chief aim of the Government and Operators, this presentation should prove most helpful.

If the following 9 fields be taken namely, Lethbridge, Taber, Big Valley, Camrose, Tofield, Cloverhatch, Cardiff, and Parkland, it will be found that they represent upwards of 96% of all the Lignites shipped out of Alberta to U.S., and upwards of 98% to Ontario, and upwards of 99% to U.S., and 97% Ontario, and 100% U.S., representing in all 1,647,406 tons out of 1,668,281 or 97.6%. Based on total output 3,347,042 out of 3,442,000.

It may be noted that these 9 fields practically cover the whole of the province. The following diagram is shown in the following Diagram No. II.



Graph Showing Distribution of Lignite outside of Alberta

Scale 1" = 300,000 Tons

D= N^o II

Fields in Order of Totals	B. C.	Sask.	Man.	Ont.	U.S.A.	Totals
Drumheller	18.549 Tons 0.28%	248,557 Tons 0.78%	280,455 Tons 0.85%	5,500 Tons 0.01%		534,561 Tons 1.88%
Lethbridge	19,732 Tons 0.31%	380,562 Tons 1.16%	24,983 Tons 0.08%			625,277 Tons 2.24%
Taber	4,981 Tons 0.08%	51,146 Tons 0.15%	14,392 Tons 0.04%			72,519 Tons 0.26%
Pembina	12,420 Tons 0.20%	21,205 Tons 0.06%	32,853 Tons 0.10%			66,478 Tons 0.24%
Clover Bar	11,380 Tons 0.18%	26,455 Tons 0.08%	9,601 Tons 0.03%			47,436 Tons 0.17%
Big Valley		23,976 Tons 0.07%	4,522 Tons 0.01%			28,500 Tons 0.10%
Camrose		19,612 Tons 0.06%	1,512 Tons 0.00%			21,124 Tons 0.08%
Tofield		15,886 Tons 0.05%	1,284 Tons 0.00%			17,170 Tons 0.06%
Cardiff		14,347 Tons 0.04%	2,373 Tons 0.00%			16,720 Tons 0.06%
Amount	37,062	1,117,038 Tons - 16.4%	440,156 Tons - 1.3%	12,634 Tons - 0.04%	25,290 Tons - 0.09%	1,637,400 Tons - 5.8%
Total Sold	37,062	1,134,416 Tons - 16.45%	456,388 Tons - 1.36%	12,681 Tons - 0.04%	25,489 Tons - 0.09%	1,663,708 Tons - 5.84%

Taking the above and ranking them in order of total Production and basing same on Percentages of the total output for the Province viz:- 6,894,139 they are as follows:-

D= N^o III

Field	Total Prod.	Sales Alta.	Sales B.C.	Sales Sask.	Sales Man.	Sales Ont.	Sales U.S.	Total Sales	% of Total
Drumheller	17.55	4.01	0.30	7.96	4.12	0.14		16.43	37.22
Lethbridge	12.45	5.15	0.28	5.75	1.23	0.01	0.37	10.42	23.52
Clover Bar	4.88	4.04	0.07	0.38	0.14	0.03		4.66	11.34
Cardiff	2.61	2.12		0.21	0.03			2.36	5.33
Pembina	2.19	0.86	0.18	0.31	0.45			1.80	4.30
Taber	1.74	0.26	0.07	0.74	0.21			1.28	2.89
Camrose	1.03	0.60		0.22	0.02			0.84	1.94
Tofield	0.78	0.50		0.23	0.02			0.75	1.69
Big Valley	0.75	0.33		0.34	0.07			0.74	1.66
Line A	43.91	16.06	0.75	18.20	6.38	0.16	0.37	39.94	90.10
Line B	90.50	80.70	96.20	88.50	86.40	94.70	100.00	90.12	100.00

Line A - The total of each Column.

Line B - % Line A is of the totals, as indicated by the headings of Columns.

It is trusted that the foregoing Diagram will be of some assistance. Note that out of 16.45% shipped to Saskatchewan 7.46% came from Drumheller, and 5.73% from Lethbridge, or a total of 13.19% from the two. For Manitoba 5.41% from the same two fields out of a total of 6.62%. Percentages based on total sales. Noting the totals sold outside of Alberta it will be noticed that out of a percentage of 24.42% those two fields yield 20.12%. Taber shows up fairly well, and next to Taber is Pembina. Outside of those the other five (5) do not figure very prominently. The lower portion of the Graph it is thought requires no comment, the presentation being sufficiently clear.

It might possibly be advisable to point out that those nine (9) fields gave for B.C. 96.2%; Saskatchewan 98.5%; Manitoba 96.4%; for Ontario 94.7%, and for the U.S. 100% of the total furnished by the entire Province to said points. The last column illustrates the percentages or standing of the various fields assuming the whole as 100%, which is the same representation as the preceding one, but probably some would more readily understand it if based on 100 rather than 44.2.

SECOND: - SITUATION IN ALBERTA.

There are seven (7) fields in all, Crow's Nest Pass, Camrose, Lethbridge, Mountain Park, Yellowhead, Big Valley and Jasper Park. For the purpose of this paper however, Camrose and Lethbridge are combined. The total production of lignite for the Province was 2,416,500 tons or 49.50%, and for Anthracite 120,094 tons or 1.2%, combined 2,536,594 tons or 50.70%. Of that there were sold 2,220,144 tons or 48.88%. The latter 61.12% of the total production of lignite in the Province.



The following Diagram shows the production and sales of Bituminous & Anthracite Coal in the Province and percentages:

Diagram showing Production & Sales of Bituminous & Anthracite Coal

Scale 1" = 400,000 Tons

Upper Line = Production Lower Line = Sales

D^m N^o IV

Total of Province	2,607,127	2,607,127	100.00 %
Crow's Nest Pass	1,534,912	1,534,912	58.87 %
Brageau	379,417	379,417	14.55 %
Yellowhead Pass	225,870	225,870	8.66 %
Canmore & Banff	273,641	273,641	10.49 %
Mountain Park	24,154	24,154	0.93 %
Jasper Park	21,287	21,287	0.82 %

RAILWAY CONSUMPTION

2,608,734 Tons.

Of the total production available the railways that come from Crow's Nest Pass, Canmore and Banff, namely, 1,534,912 tons, 139,315 of that was consumed to Haza for use on the Canadian National Railway, the balance taken by the Canadian Pacific Railway. I obtained from the latter Company the correct amount of coal used in the various Provinces for that purpose. The Provincial Commission was unable to furnish me the same data regarding the consumption of the Canadian National or any Railway. The undersigned having in former years applied for this information from the National Railway and not receiving it, in any case, his application not being even acknowledged, he felt it was probably useless at the present time to try and obtain that data. After discussing the matter in a report made to the result of said apportionment appears in the Graph. There may be slight errors arising out of that apportionment but it would be not material.

Diagram showing Bituminous & Anthracite Coal sold to Railways and where consumed.

Scale 1" = 100,000 Tons

D^m N^o V

Total	2,608,734 Tons = 100.00 %				
Field	Alberta	B.C.	Saskatchewan	Man.	Total
Crow's Nest Pass	1,534,912 = 58.87 %	139,315 = 5.34 %	0 = 0.00 %	0 = 0.00 %	1,674,227 Tons = 64.21 %
Brageau	379,417 = 14.55 %	0 = 0.00 %	179,745 = 6.89 %	0 = 0.00 %	559,162 Tons = 21.44 %
Yellowhead Pass	225,870 = 8.66 %	0 = 0.00 %	125,870 = 4.83 %	0 = 0.00 %	351,740 Tons = 13.48 %
Canmore & Banff	273,641 = 10.49 %	0 = 0.00 %	18,586 = 0.71 %	0 = 0.00 %	292,227 Tons = 11.20 %
Mountain Park	24,154 = 0.93 %	0 = 0.00 %	72,485 = 2.78 %	0 = 0.00 %	96,639 Tons = 3.71 %
Jasper Park	21,287 = 0.82 %	0 = 0.00 %	40,700 = 1.56 %	0 = 0.00 %	61,987 Tons = 2.38 %
Total for Province	1,076,724 = 41.29 %	139,315 = 5.34 %	1,003,100 Tons = 38.44 %	167,895 = 6.44 %	2,608,734 Tons = 100.00 %



Diagram showing Bituminous & Anthracite Coal sold
for other than Railway Purposes
Scale 1" = 100,000 Tons.

D = N° XI

Total	787,412 Tons - 11.42 %						
Field	Alberta	B.C.	Saskatchewan	Manitoba	Ont.	U.S.	Totals
Crows Nest Pass	131,236 - 0.01 %	47,222	108,886 - 0.04 %	101,438 - 0.01 %	150	115,418 - 0.01 %	497,334 Tons - 7.21 %
Brazzau	36,335 - 0.05 %	2,575	15,808 - 0.02 %	12,806 - 0.02 %	0	0	67,385 Tons - 0.98 %
Yellowhead Pass	70,371 - 0.03 %	15,722	11,231 - 0.01 %	13,054 - 0.02 %	0	0	111,678 Tons - 1.62 %
Cannara & Bonif	26,022 - 0.03 %	0	13,776 - 0.02 %	2,584 - 0.04 %	0	0	49,407 Tons - 0.72 %
Mountain Park	3,502 - 0.05 %	0	29,304 - 0.43 %	13,766 - 0.20 %	0	0	48,101 Tons - 0.70 %
Jasper Park	7,441 - 0.11 %	0	0	0	0	0	13,507 Tons - 0.20 %
Total	276,307 - 1.01 %	24,736	175,866 - 2.25 %	134,238 - 2.05 %	330	115,418 - 1.67 %	787,412 Tons - 11.42 %

Diagram showing total Bituminous & Anthracite sold
as shown by the 2 preceding Graphs combined.
Scale 1" = 100,000 Tons.

D = N° VII

Total	2,400,144 Tons - 150.71 %						
Field	Alberta	B.C.	Saskatchewan	Man.	Ont.	U.S.	Total
Crows Nest Pass	241,062 Tons - 7.66 %	114,817	241,820 Tons - 10.76 %	2,000	10,230	115,418	688,227 Tons - 24.63 %
Brazzau	188,100 Tons - 2.75 %	2,575	186,414 Tons - 2.75 %	0	0	0	479,814 Tons - 5.48 %
Yellowhead Pass	141,841 Tons - 2.62 %	17,826	137,181 Tons - 1.96 %	0	0	0	421,891 Tons - 6.11 %
Cannara & Bonif	101,733 Tons - 2.28 %	0	25,560 Tons - 0.46 %	0	0	0	383,431 Tons - 5.56 %
Mountain Park	27,044 Tons - 0.47 %	0	121,788 Tons - 1.46 %	0	0	0	229,314 Tons - 3.33 %
Jasper Park	68,741 Tons - 1.00 %	0	14,070 Tons - 0.47 %	0	0	0	217,007 Tons - 3.15 %
Total Bituminous	1,353,031 Tons - 19.80 %	37,591	1,239,024 Tons - 19.42 %	2,000	10,230	115,418	2,807,194 Tons - 80.71 %
Total Lignite	1,070,588 Tons - 15.89 %	24,110	1,134,916 Tons - 16.45 %	0	0	0	3,054,395 Tons - 44.50 %
Excess of Bituminous & Anth over Lignite	- 17,554 Tons - 0.25 %	37,591	204,608 Tons - 2.97 %	2,000	10,230	115,418	441,814 Tons - 6.41 %

It will be seen from the foregoing that the total amount of Bituminous coal sold in British Columbia, and also in the United States, the Province of Alberta, Manitoba and Ontario. In the latter four, the total amount of 441,814 tons is in excess.

In the first case the amount is 616,131 tons. In the latter 170,200. The difference is 441,814 tons or 6.41% of the total output.



ALBERTA COAL RESERVES OF THE WORLD WIDE INDUSTRIAL REVOLUTION

Authority Coal Reserves of the World Wide Industrial Revolution
Estimated 1912 in Canada 1912.

World's Resources 8,194,410 million tons of 1900 lbs. per ton.

Of this Alberta has 14.35% in bituminous and sub-bituminous (the latter being about 40% of the other) the reserve would be 119,533 million tons. In British Columbia which is a continuation of the southern Alberta field the reserve of bituminous would be 18,000 million tons. Combined 137,533. An output of 100,000,000 tons per annum would require 1375 years in present coal output.

From the foregoing there would not seem to be any lack of the higher grade coals in Alberta and B.C. British Columbia. The reserves will not be exhausted by the effluxion of time. The question then arises as to how we should use these our resources is the utilization of our higher grade coals fitting them in such condition that they can be used and transported without appreciable loss throughout the entire year.

If we refer back to Table 12, 13, 14 and 15 of Group 32, (see an extract sample see No. 5 of Table 32) from which it will be seen that a great variation there is in output during various months of the year. In the case cited the November output is very nearly eleven times that of May. It would appear to be difficult to have a favorable labor situation under such conditions.

Calgary. June 21st
1921.

Wm Pearce

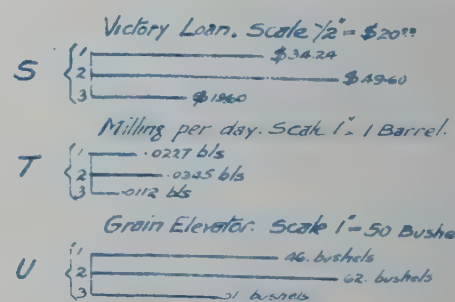
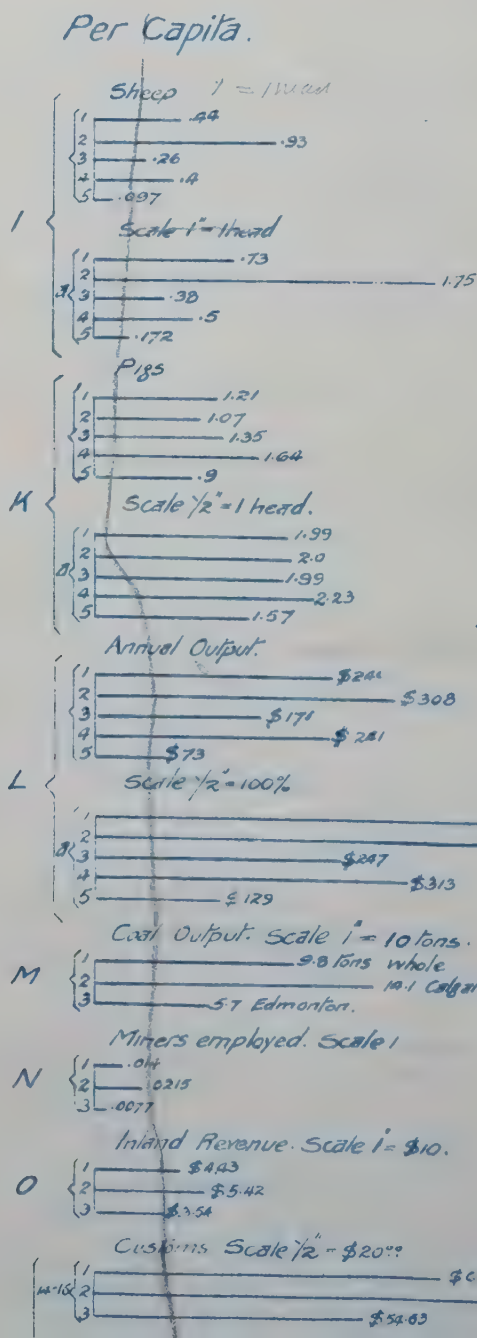
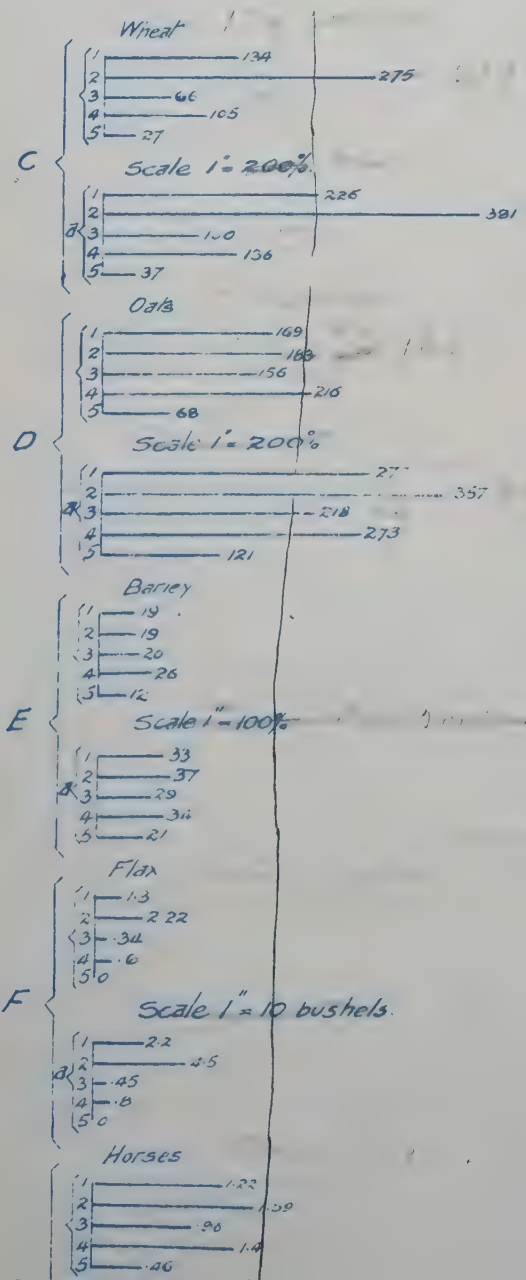
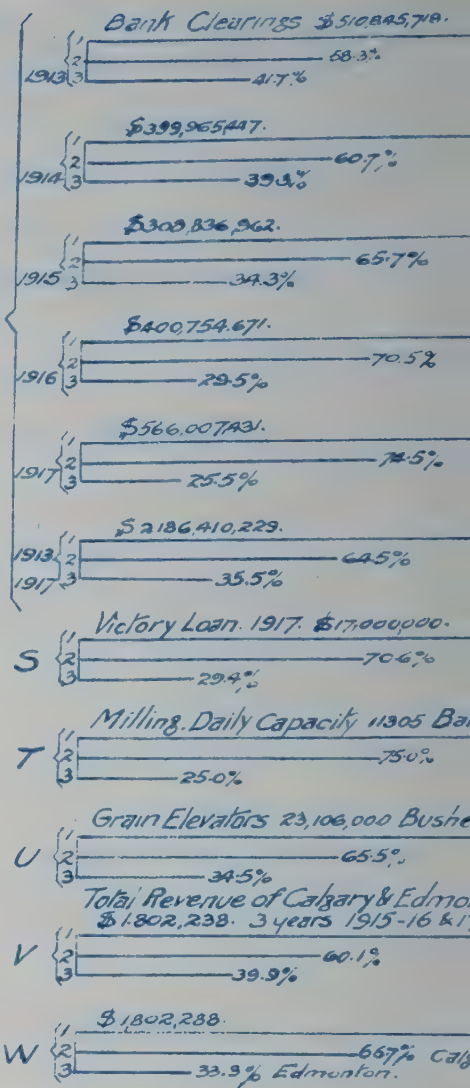
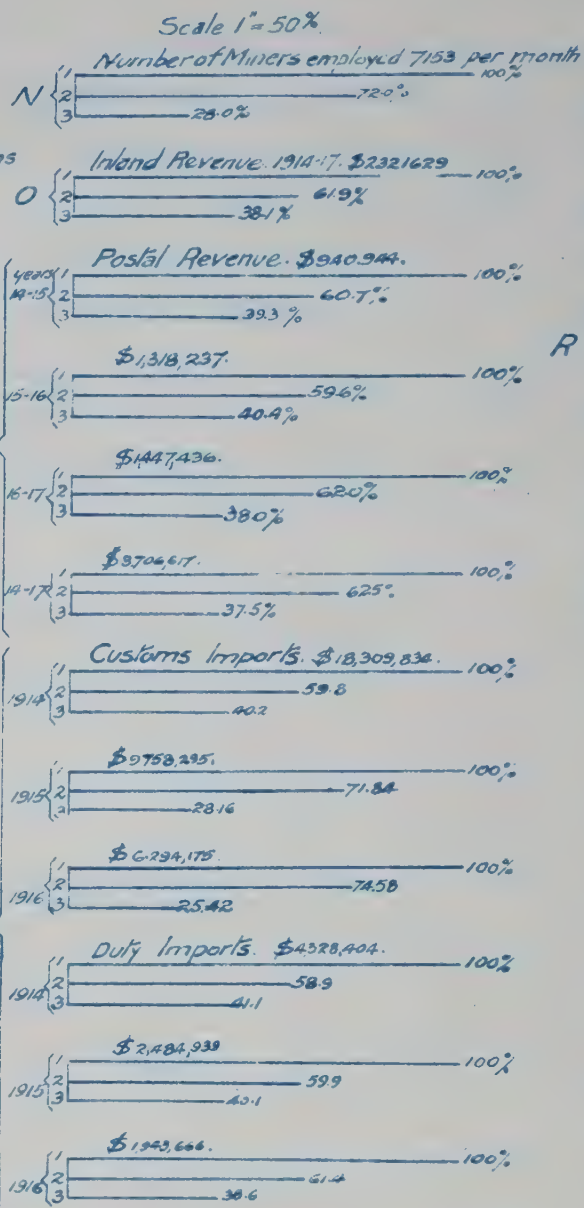
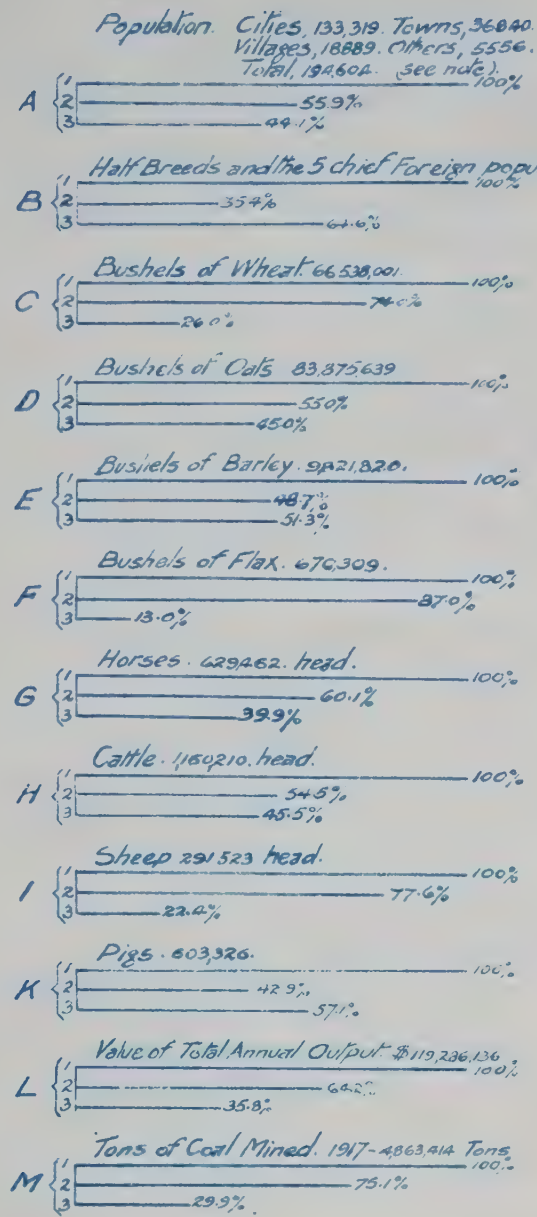
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GRAPH SHEWING CALGARY AND EDMONTON

CALGARY BOARD OF TRADE.

Calgary May 7th 1918.



G CALGARY AND EDMONTON AS CENTRES

Compiled by W. PEARCE

A. Taking the Urban population and multiplying it by the Mileage then the proportions are Calgary 1, Edmonton 1.27. In other words for each dollar for cost of transportation to Calgary the cost would be \$1.27 to Edmonton.

Percentages

This Graph shows the population, production, revenue, etc., etc. of Alberta divided into two portions, No. 2 that nearer Calgary and No. 3 that nearer Edmonton.

The distances based on shortest mileage to said Centres by existing lines of Railways even though utilizing same necessities changing from one line to another or others one or more times.

A the percentage is based on taking the population of each City, Town, incorporated Villages and these Centres or Settlements not incorporated as for instance Banff, Mountain Park, Fort Vermillion Settlement, Internment Camp, etc. and multiplying the said population by the mileage to both of said Centres.

B to W represents the entire province.

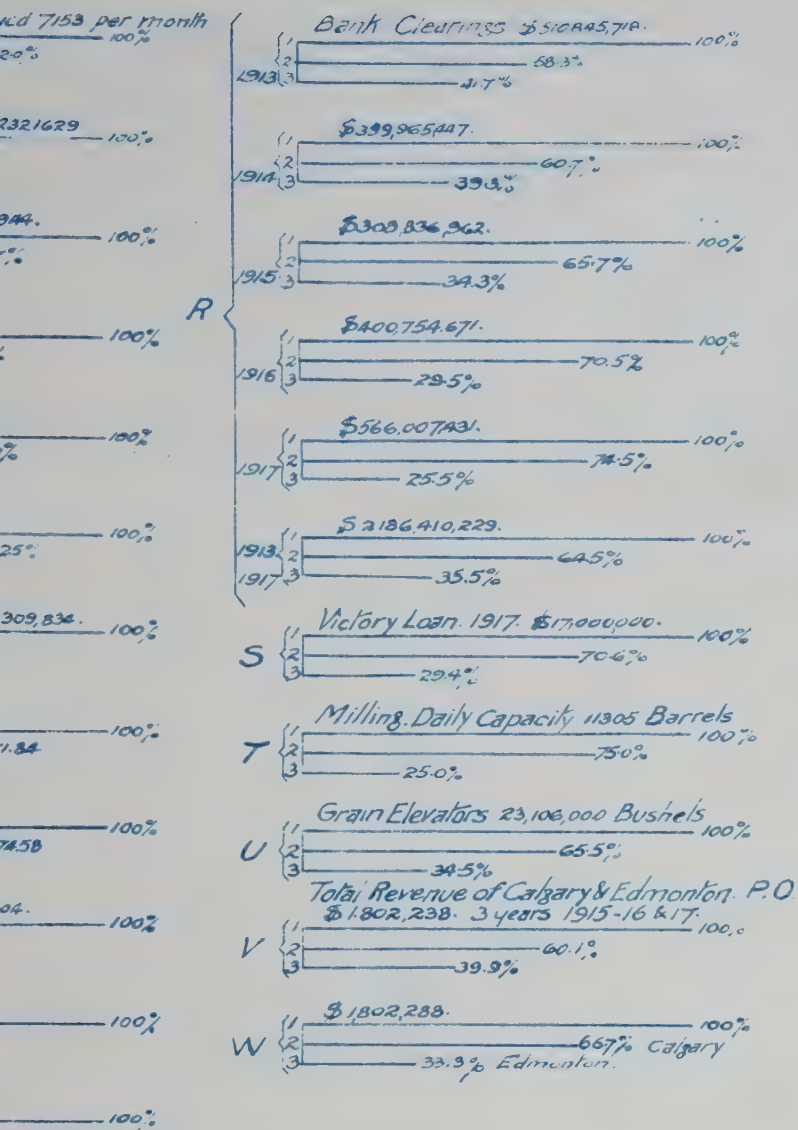
A to M excepting B based on Census of June 1916

B on Census 1911.

Nationalities not available in Census 1916.

W is V amended on the assumption that 25% of the receipts of Edmonton are due to it being the Capital. M to V excepting S taking Official reports.

These Sections are subdivided into three parts. No. 1 the Whole Province or 100%. 2- that part of No. 1 tributary to Calgary. 3- that part of No. 1 tributary to Edmonton.



Flour. Barrels	Oatmeal. Barrels	Assuming 10 Bbls = 1 Ton. Chops. Barrels
7465 100%	730 100%	311 100%
5820 78.0%	230 31.5%	236 76.0%
1645 22%	500 68.5%	75 24.0%

Per Capita.

This Graph shows the production, revenue, etc., etc., of those two portions of Alberta that are nearest to Calgary and Edmonton respectively by transportation over existing Railway lines by the shortest routes, even if such necessitated changing from one line to another one or more times.

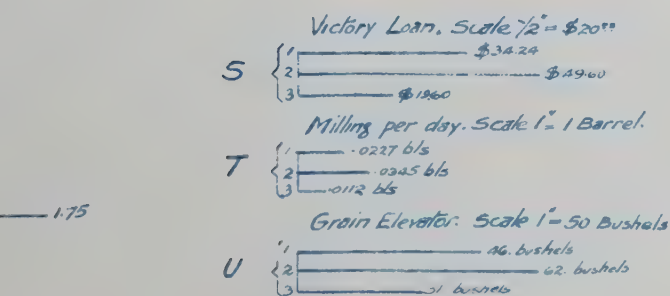
Also the same data for that portion lying nearer Edmonton divided into two portions by the North Saskatchewan River.

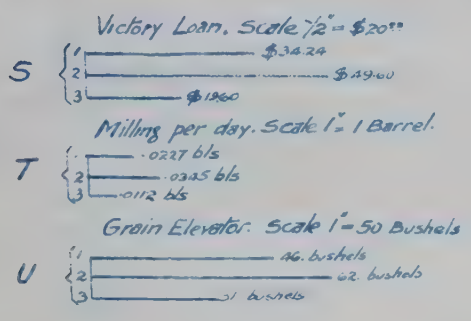
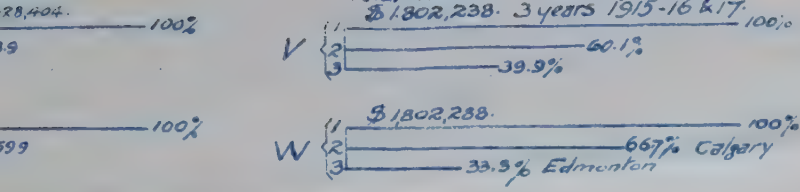
C to L subdivided numbers 1, 2, 3, 4 & 5 - 1, 2, 3, 4 & 5 per capita based on total population, 1, 2, 3, 4 & 5 per capita based on Non Urban Population.

1- Entire Province, 2- Portion tributary or nearer Calgary, 3- Nearer Edmonton, 4- Portion of 3 South of the North Saskatchewan River, 5- Portion of 3 North of said River.

1, 2, 3, 4 & 5 covering same areas and based on Non Urban Population.

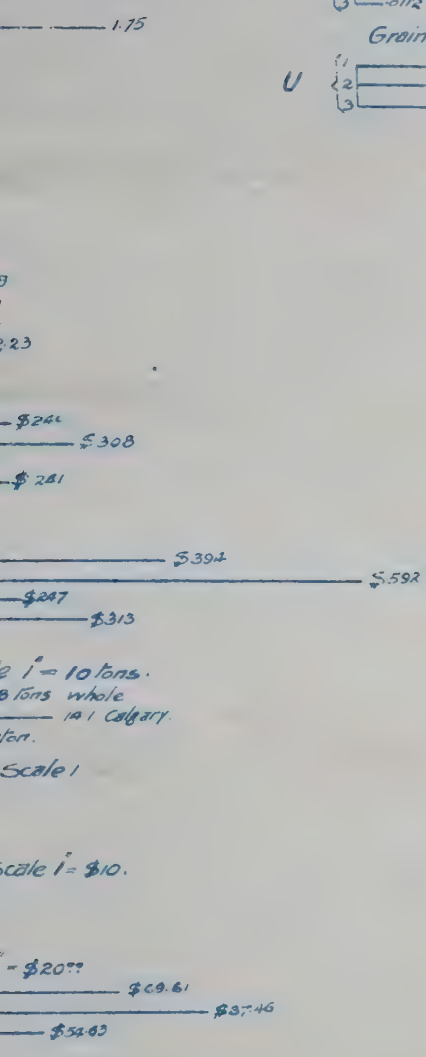
1 to Q subdivided into 1, 2 & 3, 1-based on whole Population of Province, 2- on population nearer Calgary, 3- nearer Edmonton; Per Capita.





Per Capita.

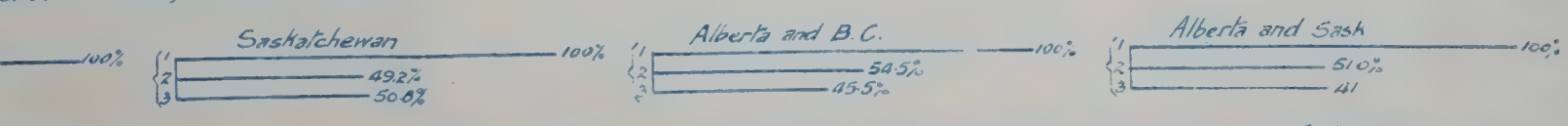
This Graph shows the production, revenue, etc., etc., of those two portions of Alberta that are nearest to Calgary and Edmonton respectively by transportation over existing Railway lines by the shortest routes, even if such necessitated changing from one line to another one or more times. Also the same data for that portion lying nearer Edmonton divided into two portions by the North Saskatchewan River. C to L subdivided numbers 1, 2, 3, 4 & 5 - 10, 20, 30, 40 & 50. 1, 2, 3, 4, & 5 per Capita based on total population, 10, 20, 30, 40 & 50 per capita based on Non Urban Population. 1 - Entire Province, 2 - Portion tributary or nearer Calgary, 3 - Nearer Edmonton, 4 - Portion of 3 South of the North Saskatchewan River, 5 - Portion of 3 North of said River. 10, 20, 30, 40 & 50 covering same areas and based on Non Urban Population. 1 to Q subdivided into 1 & 2 & 3, 1 - based on whole Population of Province, 2 - on population nearer Calgary, 3 - nearer Edmonton; Per Capita.



92688

3893

villages of Alberta and Saskatchewan as per Census of 1916; for B.C. on entire population. Census of 1911, the last available.



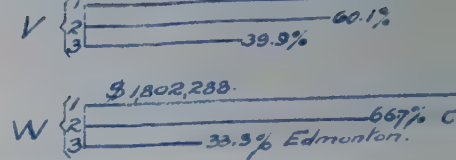
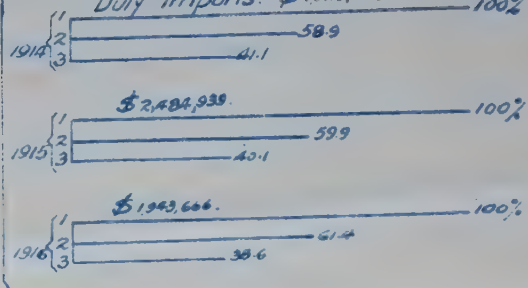
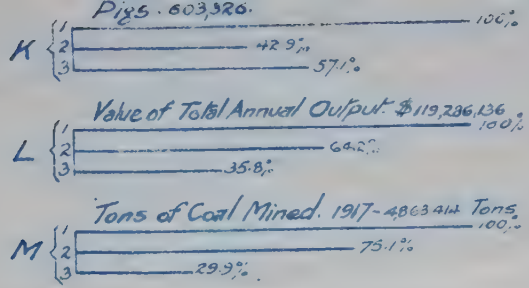
16 W line dividing the population of Alberta into two equal portions passes through about the centre of Tp 42. a short distance South of the Northerly limit of Tp 38.

were "N of Tp 38, 97 miles of Railway. South 854, or 10.2% & 89.8% respectively

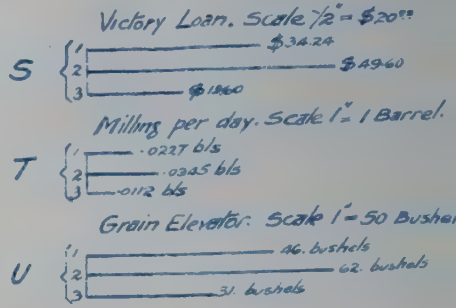
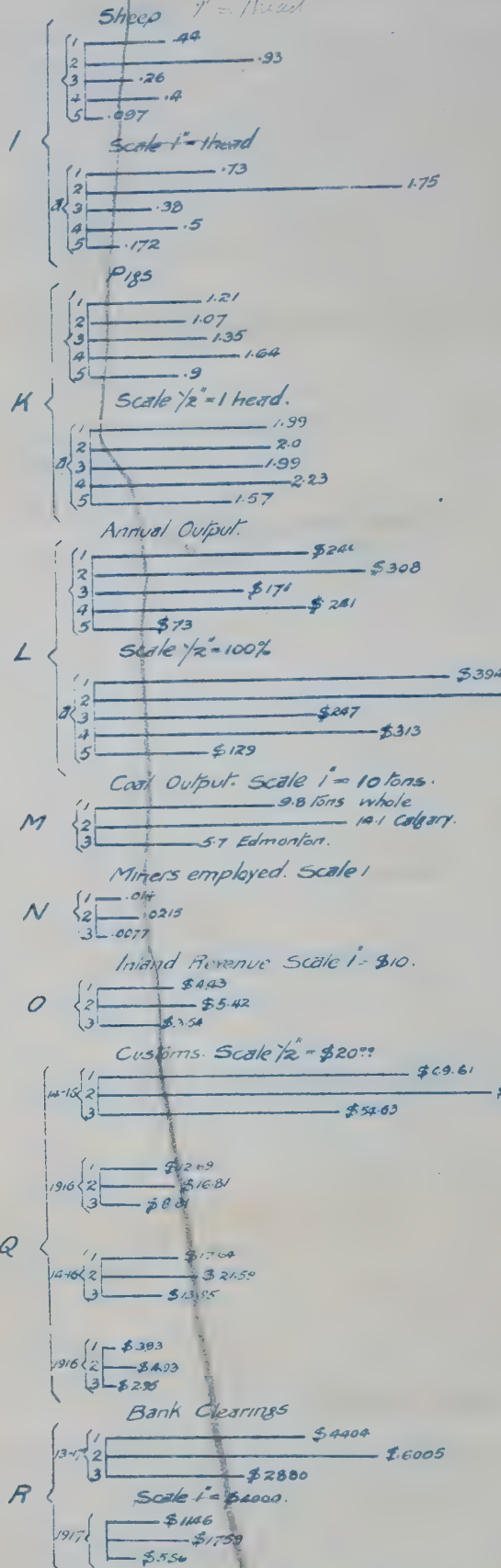
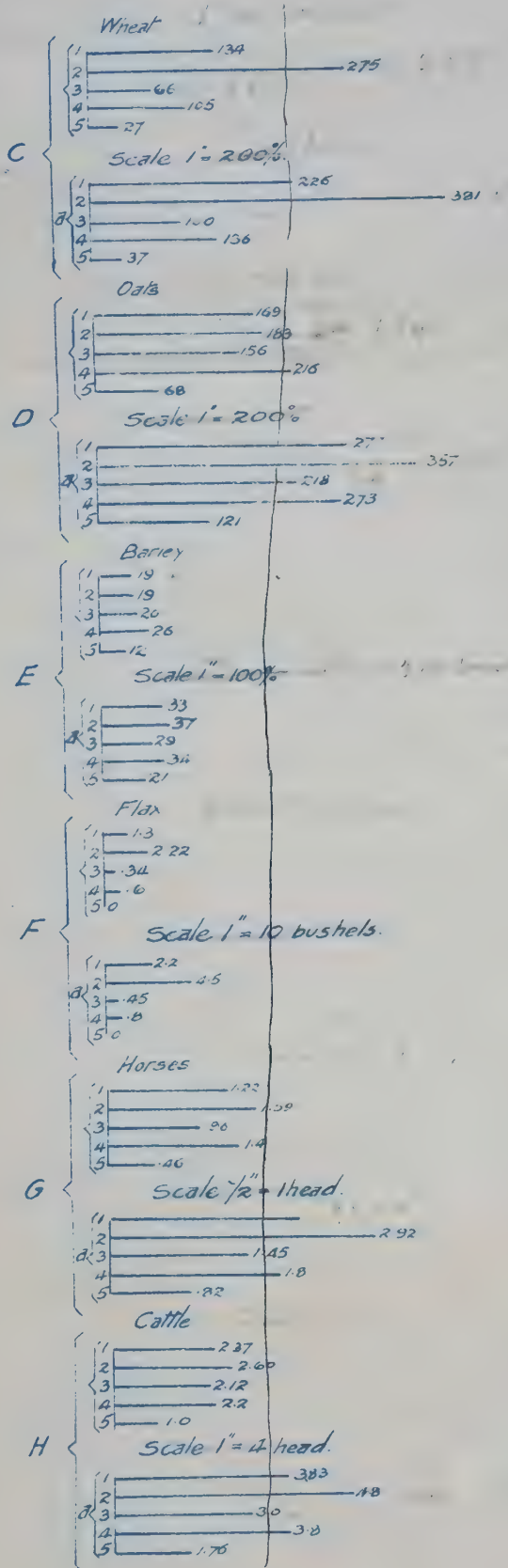
are " " " 25765 " 1924.9, " 51.4% " 48.6

" " " and South of North Sask 11867 or 25.6% of the whole

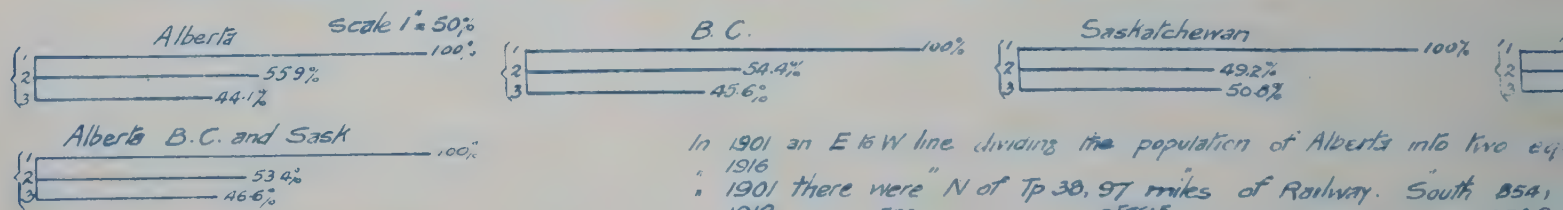
" " " North Sask 1429.8 or 31.8% of the whole.



Per Capita.



As Centres based on the populations of the Cities Towns and villages of Alberta and Saskatchewan as per Census of 1911. In the latter there being only the Cities shown in the Census of 1911, the last available.



In 1901 an E to W line dividing the population of Alberta into two equal parts. In 1901 there were N of Tp 30, 97 miles of Railway. South 854.1 miles. In 1918 there were N of Tp 30, 2576.5 miles. South 1126.7 miles. North Sask 1429.8 or 31.8% of the whole.

1851
11th

1851
11th

115

~~115~~
116

UAA 1974-169-2100-002-026

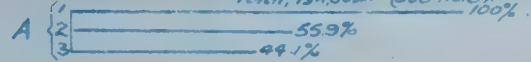
GRAPH SHEWING CALGARY AND EDMONTON AS CENT

CALGARY BOARD OF TRADE

Calgary May 7th 1918.

Compiled by W. PEARCE.

Population Cities, 133,319 Towns, 36,840. Villages, 18,889. Others, 5556. Total, 194,604. (see note) 100%



B { Half Breeds and the 5 chief Foreign populations 100%



C { Bushels of Wheat. 66,538,001 100%



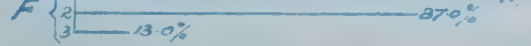
D { Bushels of Oats. 83,875,639 100%



E { Bushels of Barley. 92,182,010 100%



F { Bushels of Flax. 670,309 100%



G { Horses 629,662 head. 100%



H { Cattle 1,160,210 head. 100%



I { Sheep 291,523 head. 100%



K { Pigs 603,326 100%



L { Value of Total Annual Output. \$119,236,136 100%



M { Tons of Coal Mined. 1917-4863,914 Tons 100%



Scale 1" = 50%

N { Number of Miners employed 7182 per month 100%



O { Inland Revenue. 1914-17. \$232,162.9 100%



P { Postal Revenue. \$940,944. 100%



Q { \$1,318,237. 100%



R { \$447,436. 100%



S { \$270,617. 100%



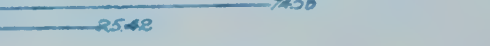
T { Customs Imports. \$18,309,834. 100%



U { \$9758,295. 100%



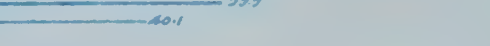
V { \$6,294,175 100%



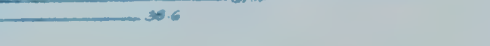
W { Duty Imports \$4328,404. 100%



X { \$2,484,938 100%



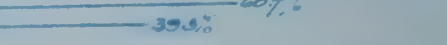
Y { \$1,240,666. 100%



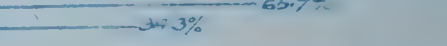
Bank Clearings \$50,945,710. 100%



1914 { \$399,965,447. 100%



1915 { \$300,836,962. 100%



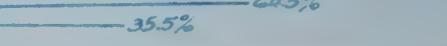
1916 { \$400,754,671. 100%



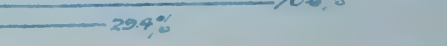
1917 { \$566,007,431. 100%



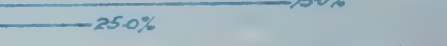
1918 { \$2186,410,229. 100%



S { Victory Loan 1917. \$1,000,000. 100%



T { Milling. Daily Capacity 11305 Barrels 100%



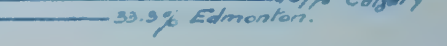
U { Grain Elevators 23,106,000 Bushels 100%



V { Total Revenue of Calgary & Edmonton. P.O. \$1,802,238. 3 years 1915-16 & 17. 100%

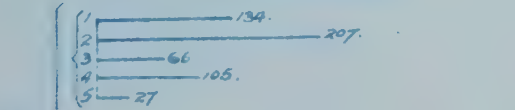


W { \$1,802,238. 100%

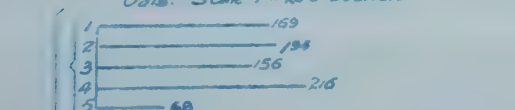


Per Capita.

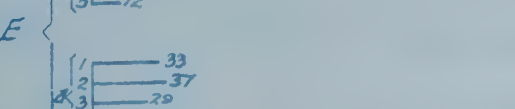
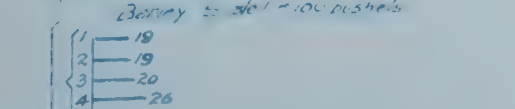
Wheat. Scale 1" = 200 bushels.



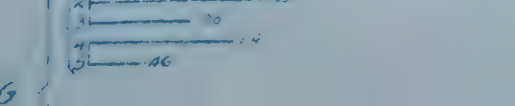
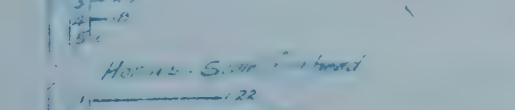
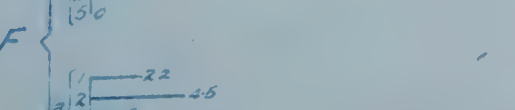
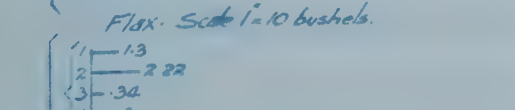
Oats. Scale 1" = 200 bushels.



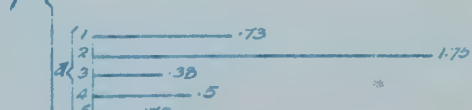
Barley. Scale 1" = 100 bushels.



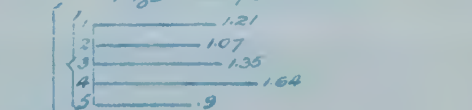
Flax. Scale 1" = 10 bushels.



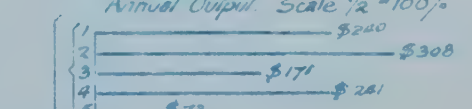
Sheep Scale 1" = 1 head.



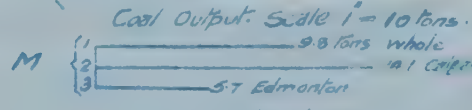
Pigs. Scale 1/2" = 1 head.



Annual Output. Scale 1/2" = 100%.



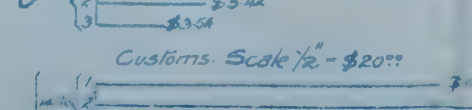
Coal Output. Scale 1" = 10 tons.



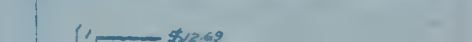
Miners employed. Scale 1" = 10.



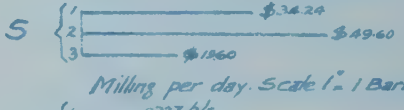
Inland Revenue. Scale 1" = \$10.



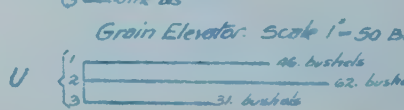
Customs. Scale 1/2" = \$200.



Victory Loan. Scale 1/2" = \$200.



Milling per day. Scale 1" = 1 Barrel.



Grain Elevator. Scale 1" = 50 Bushels.



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SHEWING CALGARY AND EDMONTON AS CENTRES

BOARD OF TRADE.

May 7th 1913.

Compiled by W. PEARCE.

LEGEND.

A. Taking the Urban population and multiplying it by the Mileage then the proportions are Calgary 1, Edmonton 1.27. In other words for each dollar for cost of transportation to Calgary the cost would be \$1.27 to Edmonton.

Scale 1" = 50%

Number of Miners employed 7153 per month

Revenue 1914-17. \$2321629

Revenue. \$940,944.

1318,237.

447,436.

106,617.

Imports \$18,303,831.

758,295.

294,173.

Imports \$4328,404.

2,434,938

233,666.

apita.

Scale 1" = 1 head.

.44

.6

.14

Scale 1/2" = 1 head.

1.21

1.07

1.35

1.64

.9

1.99

2.0

1.99

2.23

1.57

Output. Scale 1/2" = 100%

\$171

\$201

\$207

\$129

Output. Scale 1" = 10 tons.

98 tons whole

57 Edmonton.

employed. Scale 1" = 10.

Revenue. Scale 1" = \$10.

\$4.43

\$5.42

Scale 1/2" = \$2000

\$19.61

\$27.46

\$22.03

Debt. Capital. \$510,445,718

1913 1 68.3%

2 41.7%

1914 1 \$399,965,447 100%

2 39.3%

1915 1 \$300,836,962 100%

2 34.3%

1916 1 \$400,754,671 100%

2 29.5%

1917 1 \$566,007,031 100%

2 25.5%

1918 1 \$2186,410,229 100%

2 35.5%

1919 1 Victory Loan 1917. \$17,000,000 100%

2 29.4%

1920 1 Milling Daily Capacity 11305 Barrels 100%

2 25.0%

1921 1 Grain Elevators 23,100,000 Bushels 100%

2 34.5%

1922 1 Total Revenue of Calgary & Edmonton. P.O. \$1802,238. 3 years 1915-16 & 17. 100%

2 60.1%

1923 1 \$1802,238. 100%

2 66.7% Calgary

3 33.3% Edmonton.

1924 1 \$1802,238. 100%

2 66.7% Calgary

3 33.3% Edmonton.

1925 1 \$1802,238. 100%

2 66.7% Calgary

3 33.3% Edmonton.

1926 1 \$1802,238. 100%

2 66.7% Calgary

3 33.3% Edmonton.

1927 1 \$1802,238. 100%

2 66.7% Calgary

3 33.3% Edmonton.

1928 1 \$1802,238. 100%

2 66.7% Calgary

3 33.3% Edmonton.

1929 1 \$1802,238. 100%

2 66.7% Calgary

3 33.3% Edmonton.

1930 1 \$1802,238. 100%

2 66.7% Calgary

3 33.3% Edmonton.

1931 1 \$1802,238. 100%

2 66.7% Calgary

3 33.3% Edmonton.

1932 1 \$1802,238. 100%

2 66.7% Calgary

3 33.3% Edmonton.

1933 1 \$1802,238. 100%

2 66.7% Calgary

3 33.3% Edmonton.

1934 1 \$1802,238. 100%

2 66.7% Calgary

3 33.3% Edmonton.

1935 1 \$1802,238. 100%

2 66.7% Calgary

3 33.3% Edmonton.

1936 1 \$1802,238. 100%

2 66.7% Calgary

3 33.3% Edmonton.

Percentages

This Graph shows the population, production, revenue, etc. etc. of Alberta divided into two portions, No 2 that nearer Calgary and No 3 that nearer Edmonton.

The distances based on shortest mileage to said Centres by existing lines of Railways even though utilizing same necessities changing from one line to another or others, one or more times.

A line percentage is based on taking the population of each City, Town, incorporated Villages and these Centres or Settlements not incorporated as for instance Banff, Mountain Park, Fort Vermillion Settlement, Internment Camp, etc. and multiplying the said population by the mileage to both of said Centres

B to W represents the entire province.

A to M excepting B based on Census of June 1916

B on Census 1911.

Nationalities not available in Census 1916.

W is V amended on the assumption that 25% of the receipts of Edmonton are due to it being the Capital. M to V excepting S taking Official reports.

These Sections are subdivided into three parts. No 1 the Whole Province or 100%. 2- that part of No 1 tributary to Calgary. 3- that part of No 1 tributary to Edmonton.

Flour. Barrels

1 7465 100%

2 3840 78.0%

3 1645 22%

Oatmeal. Barrels

1 730 100%

2 430 58.9%

3 500 68.3%

Assuming 10 Bbls = 1 Ton.

Chops. Barrels

1 311 100%

2 236 75.9%

3 75 24.0%

1937 1 \$1802,238. 100%

2 66.7% Calgary

3 33.3% Edmonton.

1938 1 \$1802,238. 100%

2 66.7% Calgary

3 33.3% Edmonton.

1939 1 \$1802,238. 100%

2 66.7% Calgary

3 33.3% Edmonton.

1940 1 \$1802,238. 100%

2 66.7% Calgary

3 33.3% Edmonton.

1941 1 \$1802,238. 100%

2 66.7% Calgary

3 33.3% Edmonton.

1942 1 \$1802,238. 100%

2 66.7% Calgary

3 33.3% Edmonton.

1943 1 \$1802,238. 100%

2 66.7% Calgary

3 33.3% Edmonton.

1944 1 \$1802,238. 100%

2 66.7% Calgary

3 33.3% Edmonton.

1945 1 \$1802,238. 100%

2 66.7% Calgary

3 33.3% Edmonton.

1946 1 \$1802,238. 100%

2 66.7% Calgary

3 33.3% Edmonton.

1947 1 \$1802,238. 100%

2 66.7% Calgary

3 33.3% Edmonton.

1948 1 \$1802,238. 100%

2 66.7% Calgary

3 33.3% Edmonton.

1949 1 \$1802,238. 100%

2 66.7% Calgary

3 33.3% Edmonton.

1950 1 \$1802,238. 100%

2 66.7% Calgary

3 33.3% Edmonton.

LEGEND.

Per Capita.

This Graph shows the production, revenue, etc. etc. of those two portions of Alberta that are nearest to Calgary and Edmonton respectively by transportation over existing Railway lines by the shortest routes, even if such necessitated changing from one line to another one or more times.

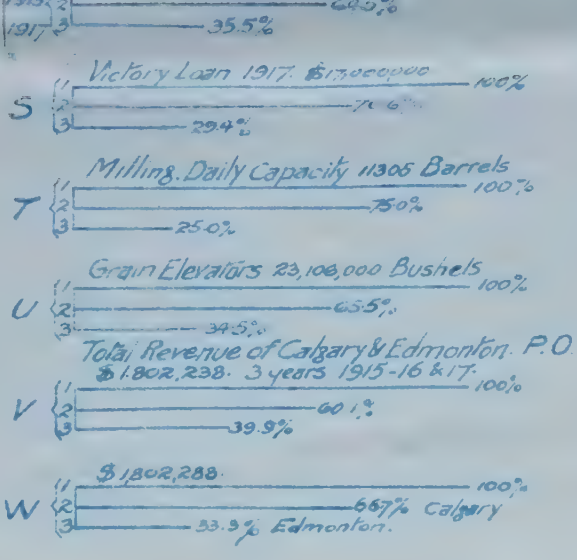
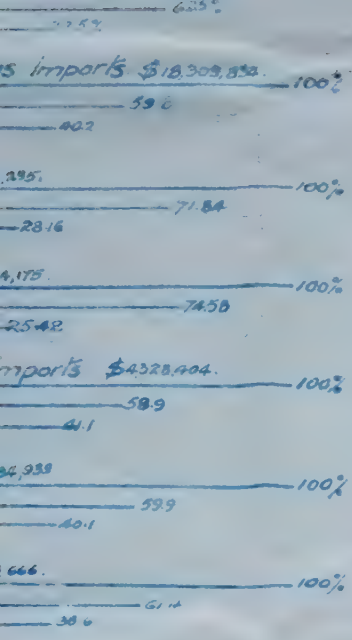
Also the same data for that portion lying nearer Edmonton divided into two portions by the North Saskatchewan River.

C to L subdivided numbers 1,2,3,4 & 5 - 1,2,3,4 & 5 per capita based on total population, 1,2,3,4 & 5 per capita based on Non Urban Population.

1- Entire Province, 2- Portion tributary or nearer Calgary, 3- Nearer Edmonton, 4- Portion of 3 South of the North Saskatchewan River, 5- Portion of 3 North of said River

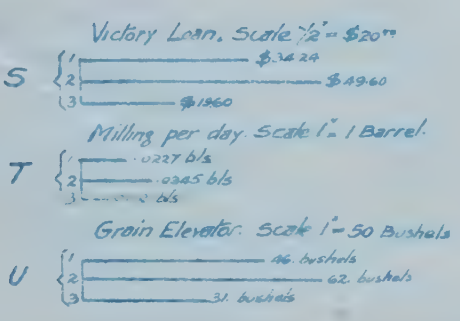
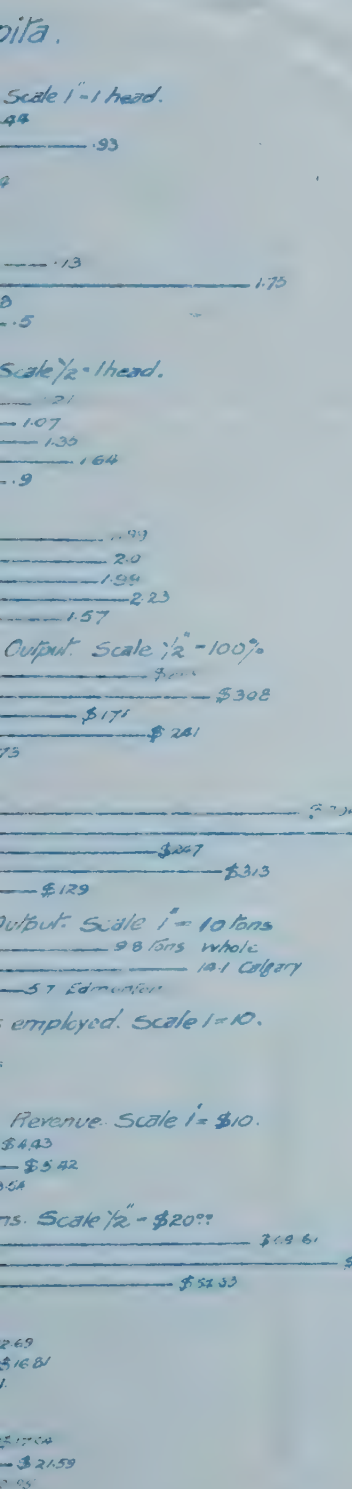
1,2,3,4 & 5 covering same areas and based on Non Urban Population

1 to Q subdivided into 1,2 & 3, 1-based on whole Population of Province, 2- on population nearer Calgary, 3- nearer Edmonton; Per Capita.



These Sections are subdivided into three parts: No 1 the whole Province or 100%. 2- that part of No 1 tributary to Calgary. 3- that part of No 1 tributary to Edmonton.

	Flour. Barrels	Oatmeal. Barrels	Chops. Barrels
1	7465 100%	730 100%	311 100%
2	5420 78.0%	230 31.5%	236 76.0%
3	1645 22.0%	500 68.5%	75 24.0%



LEGEND.

Per Capita.

This Graph shows the production, revenue, etc., etc., of those two portions of Alberta that are nearest to Calgary and Edmonton respectively by transportation over existing Railway lines by the shortest routes, even if such necessitated changing from one line to another one or more times.

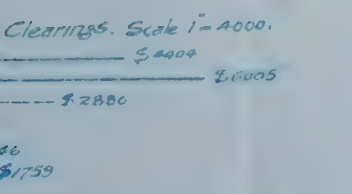
Also the same data for that portion lying nearer Edmonton divided into two portions by the North Saskatchewan River.

C to L subdivided numbers 1, 2, 3, 4 & 5 - 1, 2, 3, 4 & 5 per capita based on total population, 1, 2, 3, 4 & 5 per capita based on Non Urban Population.

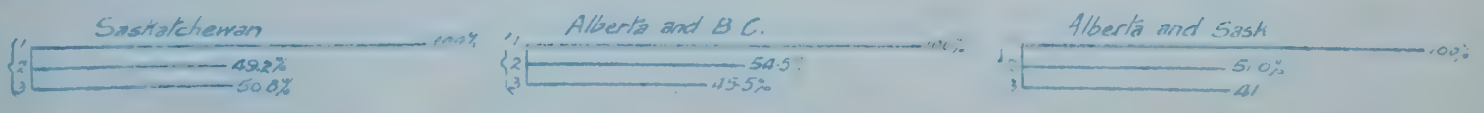
1- Entire Province, 2- Portion tributary or nearer Calgary, 3- Nearer Edmonton, 4- Portion of 3 South of the North Saskatchewan River, 5- Portion of 3 North of said River.

1, 2, 3, 4 & 5 covering same areas and based on Non Urban Population

1 to Q subdivided into 1, 2 & 3, 1-based on whole Population of Province, 2- on population nearer Calgary, 3- nearer Edmonton; Per Capita.

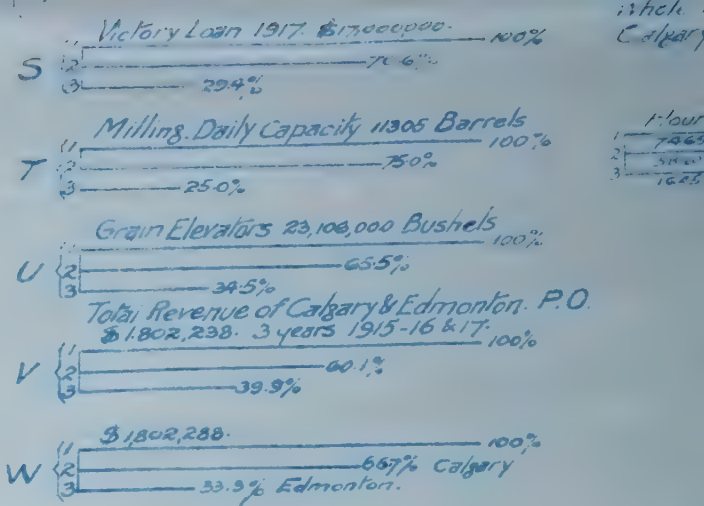
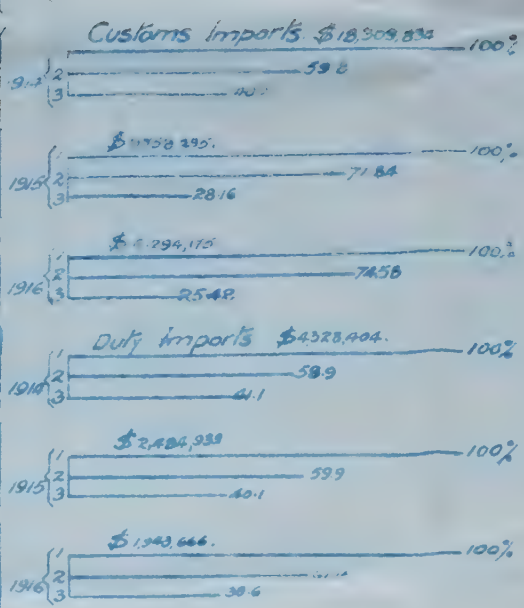
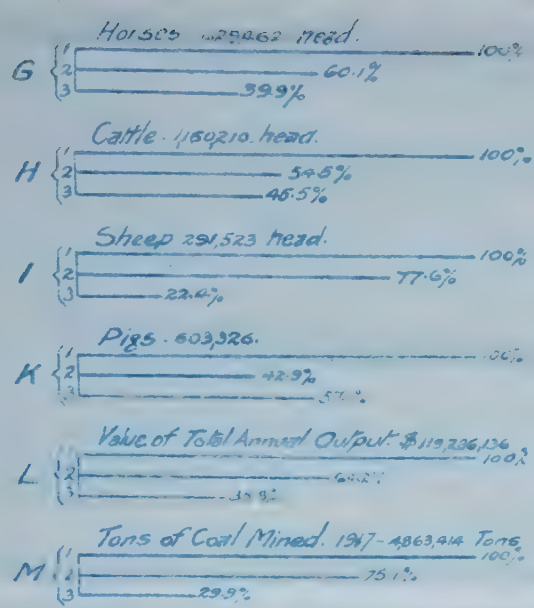


Towns and villages of Alberta and Saskatchewan as per Census of 1916; for B. C. on entire population. in the Census of 1911, the last available.

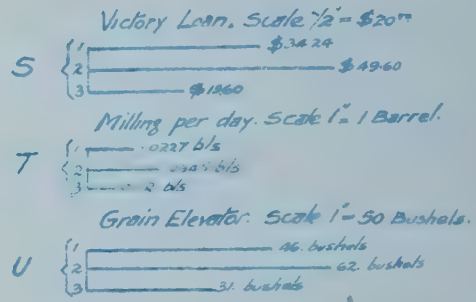
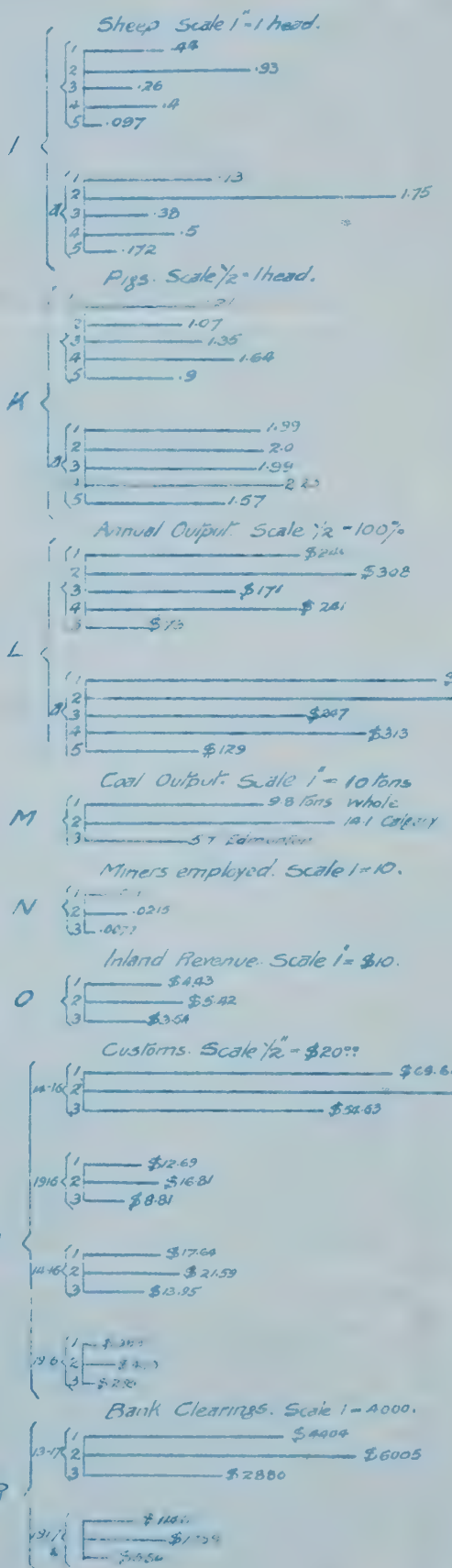
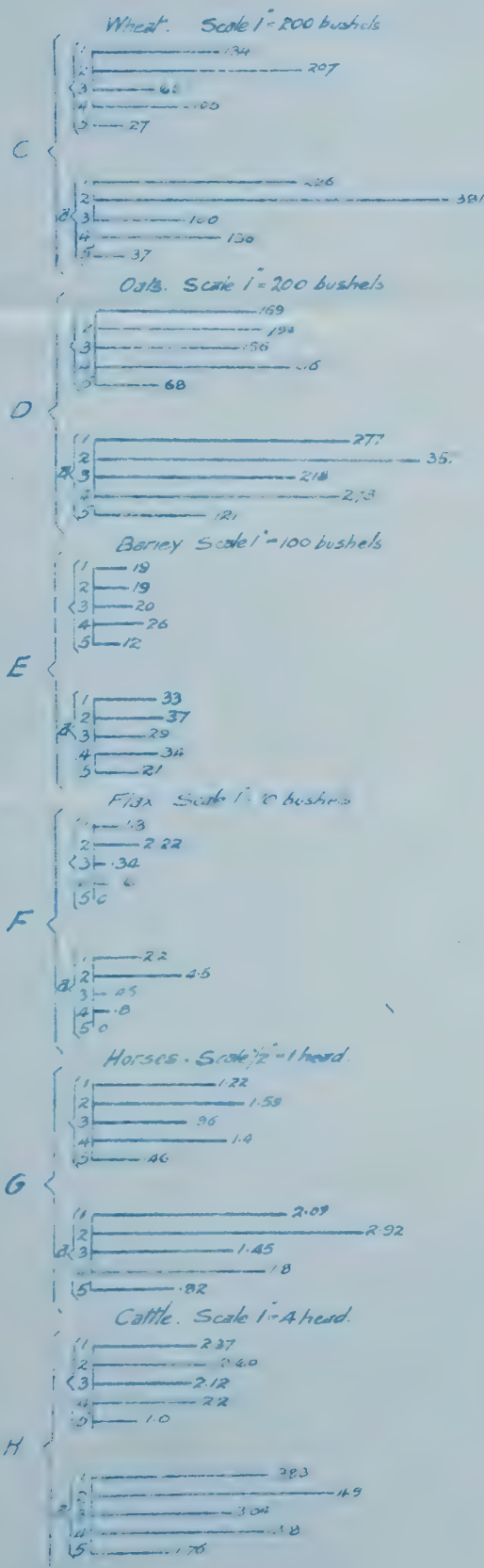


1901 an E & W line dividing the population of Alberta into two equal portions passes through about the centre of Tp 42
 1916 a short distance South of the Northerly limit of Tp 38
 1901 there were "N of Tp 38, 97 miles of Railway South 854, or 10.2% & 89.8% respectively
 1916 are " " " 2576.5 " 1924, " 514% " 42.6%
 " " " " " and South of North Sask 1146.7 or 25.6% of the whole.
 " " " " " North Sask 1429.8 or 31.8% of the whole.

1. Whole.
2. Calgary
3. Edmonton

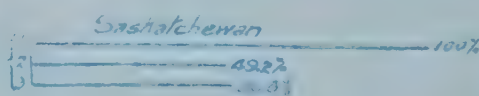
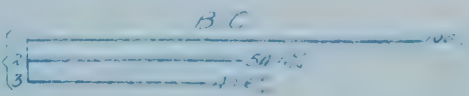
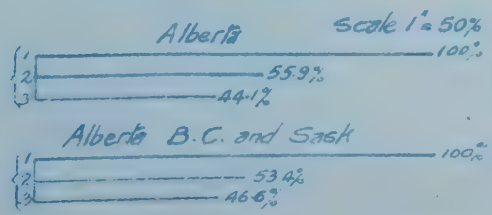


Per Capita.



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As Centres based on the populations of the Cities Towns and villages of Alberta and Saskatchewan as per Census of 1916; for B.C. on 1911. In the latter there being only the Cities shown in the Census of 1911, the last available.



In 1901 an E to W line dividing the population of Alberta into two equal portions passes the
1916
1901 there were "North 38,97 miles of Railway South 854, or 10.2% & 89.8% res.
1918 are " " " 2576.5 " 1924-9, = 52.4% = 47.6
" " " " " and South of North Sask 1146.7 or 25.6% of the whole.
" " " " " North Sask 1429.8 or 31.8% of the whole.



WAA 1974-169-2100-002-027



Township 29
Township 30

35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

CANADIAN PACIFIC RAILWAY COMPANY
DEPARTMENT OF COLONIZATION AND DEVELOPMENT

COAL FIELDS

RED DEER AND ROSEBUD RIVERS.

RANGES 18 TO EASTERLY THIRD OF 21 WEST OF FOURTH MERIDIAN

SERVED BY RAILWAY STATIONS

WAYNE, ROSEDALE, DRUMHELLER AND KIRKPATRICK

WHICH FIELD MAY PROBABLY BE EXTENDED ALONG THE RED DEER, ROSEBUD & WHEATBILLS CREEK.

SCALE 1" = 1 MILE.

LEGEND. Railways shown thus: ——— Coal Mine Spurs shown thus: ———
Coal Property Boundaries shown: ——— Coal Mine Shafts " ———
Coal Mine Leases granted by C.P.R. denoted thus: "C.M.L."

Compiled by G. Loring under the direction of
B. L. Thorne and W. Pearce.
August 15th 1921.

Graph 46

Township 29
Township 28

ROSEDALE COAL & CLAY PRODUCTS COMPANY LTD

ROSEDALE COAL COMPANY

STAR COAL & CLAY CO

ROSEDALE COAL COY

ROSEDALE COAL COY



Township 26
Township 27



100
110
120

BEYON

Canadian

North

Railway

WESTERN COMMERCIAL COAL COMPANY

COAL
COMPANY

ROSCOE

COAL

COMPANY

100
110
120

100
110
120

100
110
120





67

79

79